E v o l D i r

November 1, 2022

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be "bulletin board" in nature, if there is a "discussion" style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.

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Conferences

Brazil FlatwormEvolution Jul24-28

CEBIMar_USP.XV_International_Symposium_Flatworm_Biology_July_2023
Reply- To: XV ISFB Brazil <xv.isfb@gmail.com>

Dear flatworm enthusiasts,

We are delighted to announce that the preparations for the XV International Symposium on Flatworm Biology are underway! The symposium will be held at the Center for Marine Biology (CEBIMar) of the University of Sāo Paulo during the period of 24-28 July 2023. CEBIMar < http://cebimar.usp.br/-pt > (cebimar.usp.br) is located on the north shore of Sāo Paulo State, Brazil, in the municipality of Sāo Sebastiāo < https://en.wikipedia.org/wiki/-S%C3%A3o_Sebasti%C3%A3o,_S%C3%A3o_Paulo > - a place surrounded by lush Atlantic forest and a fantastic shoreline. Please, visit our web page at *https:/-/www.even3.com.br/xvisfb/ *. There you will find detailed information on the event, including dates for registration and submission of abstracts, registration fees, and how to contact us if you need any additional information.

As we will be updating our web page in the following weeks, we will keep you posted on relevant information. We hope this contact will encourage you to attend this important scientific event.

Sincerely,

*XV International Symposium on Flatworm Biology **Organizing Committee.*

XV ISFB Brazil <xv.isfb@gmail.com>

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CIBIO Portugal ColourEvolution ABSTextension Dec5-7

TiBE 2022 | THE BIOLOGY OF COLOUR December 5-7, 2022 | Vairao, Portugal

— CALL FOR ABSTRACTS HAS BEEN EXTENDED - POSTERS ONLY — — NEW DATE - OCTOBER 23 —

The 2022 edition of TiBE - Trends in Biodiversity and Evolution will be devoted to THE BIOLOGY OF COLOUR. Colour is a central aspect of the biology of many living beings, contributing to mediate their relationship with members of their own species and their ecosystem. During three days, we will discuss recent trends in the study of the evolutionary and functional significance of colour in nature integrating knowledge from biologists working on multiple aspects of coloura-

tion. Held in an informal but stimulating scientific atmosphere, these conferences provide an excellent opportunity for strong interaction and brainstorming between students and more experienced researcher

— PROGRAMME —

The conference will be structured in four sessions, covering different topics. Each session will open with a plenary conference by a leading researcher in the topic, and will be followed by oral communications. A poster session will take place at the end of the first day of talks.

Session 1 - Genetics and Evolution of Colour Plenary talk: Marie Manceau (College de France, Paris)

Session 2 - Mechanisms of Colour Production Plenary talk: Dvir Gur (Weizmann Institute of Science, Rehovot)

Session 3 - Behavioural Ecology and Signalling Plenary talk: Claire Doutrelant (Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier)

Session 4 - Colouration Biology in a Changing World Plenary talk: Ilik Saccheri (University of Liverpool, Liverpool)

— PARTICIPATE —

Abstract submission (posters only): https://-tinyurl.com/tibe2022submit Registration: https://-tinyurl.com/tibe2022register

— MORE INFORMATION —

Venue: CIBIO, Research Centre in Biodiversity and Genetic Resources Location: Campus de Vairao, Portugal (https://cibio.up.pt/en/about/how-to-get-here)

Website: https://tibe.biopolis.pt Email: tibe@cibio.up.pt Twitter: @tibe_biopolis

IMPORTANT DATES: Abstract submission deadline: October 16, 2022 Extended submission deadline for posters: October 23, 2022 Abstract acceptance: October 31, 2022 Early registration deadline: November 10, 2022 Late registration: November 30, 2022

TiBE2022: THE BIOLOGY OF COLOUR 5-7 December, 2022 BIOPOLIS/CIBIO-InBIO Vairï¿½o (Portugal)

Website: [http://tibe.biopolis.pt/ | https://tibe.biopolis.pt/] Email: tibe@cibio.up.pt Twitter: [https://twitter.com/tibe_biopolis | @tibe_biopolis]

TiBE2022 <tibe@cibio.up.pt>

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CostaRica IntlBarcodeOfLife Aug14-18

9th International Barcode of Life Conference - August 2023 SAVE THE DATE! AUGUST 14-18, 2023

The International Barcode of Life (iBOL) conference is coming in 2023 to a biodiversity hotspot, Costa Rica!

Join the International Barcode of Life's diverse community of researchers in exchanging new scientific knowledge, learning about advanced DNA barcoding technologies and their applications, and engaging in discussions about emerging issues in biodiversity genomics, conservation and integrated use - right there in the forest and its denizens.

Hosted by Costa Rica and iBOL, attendees will have the opportunity to learn about the country's rich natural history and their global example in nature conservation. Plus, tour Ãrea de Conservación Guanacaste, home of Costa Rica's BioAlfa process to increase bioliteracy, and one of the most comprehensively barcoded regions on the planet.

For more information and updates, please visit the iBOL 2023 conference website: dnabarcodes2023.org

9a Conferencia Internacional del Código de Barras de la Vida (Barcode of Life) 'RESERVA LAS FECHAS! Del 14 al 18 de AGOSTO del 2023

La conferencia Internacional del Código de Barras de la Vida (iBOL) llegará en el 2023 a un punto caliente de la biodiversidad, 'Costa Rica!

Ãnete a la diversa comunidad de investigadores del consorcio Internacional de Códigos de Barras de la Vida (iBOL) para un intercambio de conocimiento científico novedoso, aprender sobre tecnologías avanzadas para generar códigos de barra de ADN y sus aplicaciones, así como participar en debates sobre problemas emergentes en genómica, conservación y uso integrado de la biodiversidad - allí mismo en el bosque y sus habitantes.

Con sede en Costa Rica, los asistentes a este evento tendrán la oportunidad de aprender sobre la riqueza de la historia natural del país y su ejemplo mundial en la conservación de la naturaleza. Además, podrán recorrer el Ãrea de Conservación Guanacaste, hogar del proyecto nacional "BioAlfa" destinado a aumentar la bioalfabetización de la sociedad, y una de las regiones del planeta más exhaustivamente inventariadas por medio

del código de barras para la vida.

Para más información y actualizaciones, visite el sitio web de la conferencia iBOL 2023: dnabarcodes2023.org

On behalf of the conference organizing team

Dirk Steinke Centre for Biodiversity Genomics University of Guelph dsteinke@uoguelph.ca

Dirk Steinke <dsteinke@uoguelph.ca>

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InstPasteur EvolutionMorphogenesis Dec12-13

The Qbio initiative in Institut Pasteur (Paris) is organising a fully hybrid symposium that willl take place in Institut Pasteur on Monday and Tuesday December 12th and 13th.

MeMoDEvo: Mechanics Morphogenesis Development and Evolution

How can mechanics constrain the evolution of shape or be a source of morphogenetic innovation ? The Qbio initiative at Institut Pasteur is organising a two-day symposium in the campus on December 12th and 13th 2022 which will cover the interplay between mechanics, evolution, morphogenesis and development. This interdisciplinary symposium will combine a large range of approaches (morphometric analysis, modeling, soft-matter physics, comparative morphogenesis, epistemology) and diverse organisms (plants, yeast, algae, cnidarians, insects and vertebrates) with diverse and excellent speakers. This symposium is meant to be an open platform for discussion between physicists, mathematicians and biologists on relevant biological questions, and to foster interactions between topics/systems which normally have few occasions to interact.

The meeting will be in a fully hybrid format, with an in-person audience and speakers, as well as a virtual audience and virtual talks.

Two morning sessions will be dedicated to open discussions in sub-groups on site while afternoon seminar sessions will be fully hybrid.

The full program can be found on our website https://-neuroanatomy.github.io/MeMoDEvo .

Registration is free but mandatory (before November 14th): https://forms.gle/TTLdHmJf1Ajr8bvr9 If you have any query, please contact: memodevo@pasteur.fr

The list of confirmed speakers can be found below.

Invited speakers :

Bruno Vellutini (Tomancak group, MPI, Dresden)

Marie Monniaux (ENS, Lyon)

Will Ratcliff (Georgia tech, Atlanta)

Peter Yunker (Georgia tech, Atlanta)

Marie Manceau (Collï¿½ge de France, Paris)

Jose Bico (ESPCI, Paris)

Steffen Lemke (University of Heidelberg, Heidelberg)

Jean-Lï¿½on Maï¿½tre (Institut Curie, Paris)

Arkhat Abzhanov (Imperial College, London)

Annemiek Cornelissen (LMSC, Paris)

Hï¿½lï¿½ne de Maleprade (Sorbonne University, Paris)

Etienne Couturier (LMSC Paris)

Ana Soto (Tufts University, Boston)

Maï¿½l Montevil (Centre Cavaillï¿½s, Paris)

Lakshminarayanan Mahadevan (Harvard University, Boston)

Stuart Newman (New York Medical College, New York)

Thibaut Brunet Evolutionary Cell Biology and Evolution of Morphogenesis group < https://-research.pasteur.fr/en/team/evolutionary-cell-biology-and-evolution-of-morphogenesis/ > Department of Cell Biology and Infection Department of Developmental Biology and Stem Cells Institut Pasteur 25-28 rue du Dr Roux 75724 PARIS CEDEX 15, France Phone : (+33) 01 76 53 53 06

Thibaut Brunet <thibautbrunet@hotmail.com>

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Lucca Italy Speciation Jan29-Feb3

CONFERENCE ANNOUNCEMENT:

We are pleased to announce SPECIATION 2023: The Origin and Persistence of Species, the fourth Gordon Research Conference (GRC) dedicated exclusively to speciation research. The conference will be held at

the beautiful Renaissance Tuscany Il Ciocco in Lucca, Italy during the week of January 29-February 3, 2023 and is co-chaired by Katie Peichel (University of Bern, Switzerland) and Dan Bolnick (University of Connecticut, USA).

The conference will be directly preceded by a two-day Gordon Research Seminar (GRS) on January 28-29, 2023. The GRS is co-chaired by Joana Meier (Wellcome Sanger Institute and University of Cambridge, UK) and Jenn Coughlan (Yale University, USA) and offers opportunities for early-career scientists to get involved at the forefront of modern speciation research.

Invited presentations and discussion sessions at both the GRC and GRS will cover a broad array of timely topics in speciation research. Please see the conference websites for more details: https://www.grc.org/speciation-conference/2023/ https://www.grc.org/speciation-grs-conference/2023/ The GRS is already fully subscribed. Registration for the GRC is open until December 31, 2022, but there are only 50 spots left, so register soon!

Please send questions to catherine.peichel@unibe.ch

We look forward to seeing you in Italy! Katie Peichel, Dan Bolnick, Joana Meier, and Jenn Coughlan

"catherine.peichel@unibe.ch"
<catherine.peichel@unibe.ch>

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MexicoCity SSB Jan14-15

SSB Standalone Meeting 2023 in Mexico city. Spanish follows message in English.

ENGLISH

The Society of Systematic Biologist (SSB) and the Institute of Biology of the Universidad Nacional Autï¿½noma de Mï¿½xico (UNAM) are pleased to invite you to participate in the 5th Standalone Meeting of the Society of Systematic Biologists, to be held at the main campus of UNAM, Ciudad Universitaria, in Mexico City, on January 14th and 15th, 2023.

The SSB Standalone meeting is one of the best opportunities to hear about state of the art research and novel methods in phylogenetic systematics. This is one of the most relevant meetings in the field, and for the first time will be held in Latin America.

Most of the activities will take place at the main campus of UNAM, which is a UNESCO World Heritage site. The opening reception will be held at the National Biodiversity Pavilion, a newly inaugurated, one-of-a-kind venue that combines public museum exhibits with state-of-the-art research in biodiversity. The closing ceremony will be held at the Palace of Medicine, at the Historic Center of Mexico City, which housed the School of Medicine in the XIX century, and represents one of the best examples of architecture from the colonial period.

Contributions for the meeting will be in two categories, lightning talks and posters. During the meeting forums and keynote talks on cutting edge phylogenetics will be presented, and pre- and post-meeting workshops will be held.

In order to participate in the SSB meeting you have to be a SSB member. There are a number of benefits in being a member of SBB. In addition to participating in meetings, membership grants access to the Society journal, Systematic Biology. Students can also apply for travel grants and other benefits. Yearly membership ends 12-31-2023.

The SSB and the Instituto de Biologï¿½a have made an outstanding effort to offer travel grants and other benefits for students and posdoctoral researchers. This will be noticeable in registration rates and subsequent fees.

Contact e-mail ssb.2023.ib@gmail.com

Meeting information in full https://www.ib.unam.mx/ib/ssb2023/ Meeting registration https://www.ib.unam.mx/ib/ssb2023/registration-and-abstracts SBB membership application form https://www.systbio.org/membership.html ESPAï¿½OL

La Sociedad de Biï¿½logos Sistemï¿½ticos (SSB) y el Instituto de Biologï¿½a de la Universidad Nacional Autï¿½noma de Mï¿½xico (UNAM) tienen el gusto de invitarles al 5o encuentro Anual Independiente de la SSB, a celebrarse en la Ciudad Universitaria de la UNAM, Ciudad de Mï¿½xico, los dï¿½as 14 y 15 de enero del 2023.

La reuniï¿½n de la SSB es una excelente oportunidad para conocer de primera mano los descubrimientos y mï¿½todos mï¿½s recientes en biologï¿½a filogenï¿½tica. Esta reuniï¿½n es uno de los foros mï¿½s relevantes sobre el tema, y esta serï¿½ la primera vez que se lleve a cabo en Latinoamï¿½rica.

La mayor parte de las actividades transcurrirï¿½n en el campus de la UNAM, que es considerado patrimonio de la humanidad por la UNESCO. La recepciï¿½n se lle-

varï¿½ a cabo en el recientemente inaugurado Pabellï¿½n Nacional de la Biodiversidad, el cual conjuga funciones de difusiï¿½n e investigaciï¿½n y es ï¿½nico en su tipo en Latinoamï¿½rica. La clausura se llevarï¿½ a cabo en el Palacio de la Escuela de Medicina, ubicado en el Centro Histï¿½rico de la Ciudad de Mï¿½xico, y que es un majestuoso ejemplo de la arquitectura virreinal de la Nueva Espaï¿½a.

Las modalidades de trabajos contempladas para esta reuniï¿½n incluyen plï¿½ticas relï¿½mpago y carteles. Durante la reuniï¿½n se llevarï¿½n a cabo foros y conferencias sobre tï¿½picos de avanzada en el ï¿½rea y tambiï¿½n se realizarï¿½n talleres pre y post-reuniï¿½n.

La participaciï¿½n en la reuniï¿½n estï¿½ restringida a las personas con membresï¿½a vigente en la SSB, por lo que es necesario inscribirse a esta sociedad cientï¿½fica. La membresï¿½a brinda mï¿½ltiples beneficios:

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Online ButterflyEvolution Oct13

You are cordially invited to the virtual mini-symposium of the Melanitis leda project.

We have three excellent speakers:

1. Kwaku Aduse-Poku (University of Georgia). Phylogeography of tropical satyrine butterflies (20 min) 2. Elizabeth 'Liz' Moore (North Carolina State University). 3. Mechanisms of seasonal polyphenism in the common evening brown butterfly (20 min) 4. Indukala K (Indian Institute of Science Education and Research Thiruvananthapuram) Does mandible morphology respond to varying hostplant thickness? (10 min)

And I will then present the Melanitis leda project's background and methods (20 minutes)

Followed by Q & A and discussion.

You can join the symposium on TEAMS via this link: https://teams.microsoft.com/l/meetup-join/19%3a2uJlBVmMyU0KyhL7ghCM_xttoV6ahjQEPEIzDYiDEA1%40thread.v2/1664258770484?context=-%7b%22Tid%22%3a%2273689ee1-b42f-4e25-a5f6-66d1f29bc092%22%2c%22Oid%22%3a%22ef69eb27-1993-4e06-ba91-bee6b507a4e5%22%7d The symposium starts on Thursday 13th of October at 13:30 Central European Time (e.g. 17:00 in India), and will take about one and a half hours. The primary purpose is to foster discussion in our network of volunteers, but the symposium is open to the general public. Let me know if you need any assistance (fremol@amu.edu.pl).

Your presence will be highly appreciated and make it a colourful occasion.

Sincerely,

Freerk Molleman

The Melanitis leda project is a collaborative research project funded by the Narodowe Centrum Nauki (National Science Centre, Poland) OPUS grant "Success of a widespread butterfly: Local adaptation or phenotypic plasticity?", grant 2021/43/B/NZ8/00966.

Freerk Molleman <fremol@amu.edu.pl>

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Online CIGENE CodEvolution Oct26

Hi all,

The next CIGENE seminar is in just one week and we are pleased to welcome Helle Tessand Baalsrud, who will tell us about "The evolution of genomic structural variation in Atlantic cod populations"

Abstract: Genomic structural variants (SVs) can have profound evolutionary consequences in a species through gains, losses and rearrangement of DNA. In Atlantic cod four large chromosomal inversions have been identified and shown to act as supergenes linked to differences in migratory behavior and physiology between co-occurring populations. However, it is unknown to which extent structural variation in general facilitates local adaptation in Atlantic cod. To answer this question, we have sequenced the whole genome of 885 individuals from across the range of this species and characterized SVs, including inversions, duplications and deletions. We demonstrate extensive structural variation in Atlantic cod, including complex nested SV loci. By scanning the genome for differentiated SVs between populations we identify several candidate SVs linked to local adaptation. Furthermore, we have investigated how SVs shape the evolution of different genomic regions, from coding sequences to putative regulatory regions. This brings

us closer to reveal how structural variation underpins genome evolution in the enigmatic Atlantic cod.

Time: Wednesday, Oct 26th, 12-13PM in Norway time. For more information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 Best, Marie

Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Online CIGENE Oct12

Hi all,

The next CIGENE seminar is in just one week and we are pleased to welcome Justin Merondun, who will tell us about "Population and evolutionary genetics of host specialization in common cuckoos"

Abstract: Coevolutionary arms races are often responsible for generating extreme phenotypic diversification. Fueled by positive feedback between highly specialized parasites and their attuned hosts, avian brood parasites provide an excellent system to understand the coevolutionary pressures generating phenotypic diversification. Common cuckoos, an obligate brood parasite, exhibit striking egg diversity across Eurasia which closely mimics their hosts. Here, we examine population and evolutionary genetic patterns perpetuating host specialization in common cuckoos and quantify the selective forces underlying egg diversification, allowing them to exploit hosts across the continent from the British Isles to the South China Sea. Time: Wednesday, Oct 12th, 12-13 CET For more information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 Best, Marie

Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Online CIGENE Oct19 CoralPopGen

Hi all,

The next CIGENE seminar is in just one week and we are pleased to welcome Kenji Takata, who will tell us about " Population genetic analysis for deep-sea corals (mesophotic and continental shelf area) in Japan using genome-wide SNP data "

Abstract: While corals play an important role in increasing biodiversity by providing complex habitat structures for other species, they are highly threatened due to various factors (ex. climate change and over-fishing). We examined spatial genetic structure of two types of corals (precious corals and reef-building corals) aiming for their conservation. First, we applied a genome-wide SNP analysis called MIG-seq to reveal spatial genetic structure and species boundaries in precious corals that can be found at depths of 100 to 300 m in Japan. Secondly, we examined 3 dimensional genetic structure of reef-building coral, Seriatopora hystrix that inhabits up to 50 m depth in Ryukyu Islands.

Time: Wednesday, Oct 19th, 12-13 CET. For more information, check out the seminar website: https://-cigene.no/cigene-seminar-series/ Zoom link: https://-nmbu.zoom.us/j/67064421833 Best, Marie

Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Online CIGENE SalmonEcoEvo Nov2

Hi all,

To the next CIGENE seminar, we are pleased to welcome Louise Chavarie, who will tell us about "Salmon Evolutionary Ecology" The talk will be recorded and

will be available upon request for up to two weeks.

Her projects https://louisechavarie.weebly.com/-projects.html Time: Wednesday, Nov 2nd, 12-13 pm in Norway. For more information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 Best, Marie

Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Online ESEB STN Speciation Oct11

Dear colleagues,

A reminder that next instalment of the online seminar series organised by the ESEB-funded STN network ≪ Integration Of Speciation research ≫ ([https://-speciation-network.pages.ist.ac.at/]) will be held on 11th October 2022, 9 am CET.

The upcoming session addresses the topic of "Genomic approaches to identifying barrier loci". We welcome as speakers Christelle Fraisse (University of Lille, France) and Stuart Baird (Czech Academy of Sciences, Czech Republic).

The session will last 1.5 hours, with the first hour dedicated to talks from our speakers followed by questions. The last half-an-hour is dedicated to a more general discussion.

To attend the session live, please follow the link on our website: https://speciation-network.pages.ist.ac.at/-seminar-series/ . Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/-UClEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The programme of the seminar series is announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically receive the programme and other news from the IOS network can sign up to the network mailing list from the IOS website.

We look forward to seeing you there!

The STN IOS organising committee,

Jonna Kulmuni (chair), Chris Cooney, Sean Stankowski, Carole Smadja (co-chairs), Sonal Singhal, Liz Scordato, Joana Meier, Richard Merrill, Konrad Lohse, Nick Barton and Roger Butlin

NERC Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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Online EvolAnimalBehaviour Nov17-18

Dear colleagues,

We are Animal behaviour Live, an international online platform promoting sustainable and inclusive events fully broadcast online on YouTube. We are glad to announce that this year we are hosting the third edition of the Animal Behaviour Live: Annual Online Congress on the 17th and 18th of November 2022.

In line with our ethos, the event is free of charge to all researchers from the community. To ensure that everyone can participate, the congress will be divided into 6 sessions (3 sessions per day):

* Session 1: 7h-10h UTC+0

* Session 2: 14h-17h UTC+0

* Session 3: 21h-24h UTC+0

Over these different sessions, you will be able to attend 5 plenaries and 24 short presentations, as well as other little surprises. In parallel, it will also be possible to watch a series of posters during the whole congress.

Our plenary speakers so far are:

* Pr. Madeleine Beekman, Emeritus Professor of Evolutionary Biology, The University of Sydney, Australia. She will talk about why she loves studying honeybees. * Pr. Elizabeth Tibbetts, Professor of Ecology and Evolutionary Biology at the University of Michigan, USA. She will talk about how communication, cognition, and flexible hormone titres mediate social competence in paper wasps. * Pr. Hema Somanathan, Professor at the School of Biology of the Indian Institute of Science Education and Research, Thiruvananthapuram, India. She will talk about bees beyond twilight. * Pr. Erica van de Waal, Professor at the Department of Ecology and Evolution, University of Lausanne, Switzerland. She will talk about lab cognition going wild with field experiments on vervet monkeys. * Pr. Leticia Avilés, Professor at the University of British Columbia, Vancouver, Canada.

For more information and to register, please visit our website: http://www.animalbehaviour.live/index.html . This year's conference will include a satellite workshop on how to apply the STRANGE guidelines (https://-doi.org/10.1038/d41586-020-01751-5), a new framework for animal behaviour research that will help to avoid sampling bias and to improve data reproducibility. An extra (free) registration is necessary to participate in this workshop: https://forms.gle/7MneWBULxqicR1W96. From these registrations, we will pick several participants willing to take part in the discussion with the STRANGE authors about the issues our community often faces when reporting animal behaviour and what can be done about it. Let us know in the form if you would like to be chosen to act as one such representative of our community and interact live with the authors.

Our organisation is small (we are 7 early career researchers working on a voluntary basis) and the success of this event is based on the support of our community. For this reason, we would be particularly grateful if you could spread the word about this event to your colleagues and collaborators who you think may benefit from participating in the congress. If you have a twitter account, you can also follow us (@AnimalBehavLive) and RT our announcement about the congress.

We would like to thank you for your help and hope to see you at the Animal Behaviour Live: Annual Online Conference 2022.

Kinds regards,

The organising committee.

Dr Natacha Rossi (she/her) Research Fellow in Insect Behaviour School of Life Sciences Evolution, Behaviour & Environment University of Sussex https:/-/profiles.sussex.ac.uk/p579686-natacha-rossi Natacha Rossi <ncr27@sussex.ac.uk>

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Online NewPhytologistNow Oct27

This Thursday 27 October, you're invited to join us for our next free New Phytologist Now online event, with Tansley Medal winner MichaÂ³ Bogdziewicz, hosted by New Phytologist Editor Maarja Ãpik.

Thursday 27 October 14:00 BST (UTC +1) / 09:00 EDT

How will global change affect plant reproduction? A framework for mast seeding trends MichaÂ³ Bogdziewicz, Associate Professor, Institute of Environmental Biology, Adam Mickiewicz University 2021 New Phytologist Tansley Medal winner Hosted by New Phytologist Editor Maarja Ãpik

Register now: https://www.newphytologist.org/events/-now Save the date! Join us for all our New Phytologist Now events featuring recent Tansley Medal winners.

16 November 2022: Tommaso Jucker, University of Bristol Deciphering the fingerprint of disturbance on the three-dimensional structure of the world's forests

7 December 2022: Jana Sperschneider, CSIRO Machine learning in plant-pathogen interactions: empowering biological predictions from field scale to genome scale

Register for upcoming events at https://-www.newphytologist.org/events/now Dr Mike Whitfield (he / him), Development Coordinator The New Phytologist Foundation < https://www.newphytologist.org/ > | Registered charity number 1154867

Twitter & Instagram: @NewPhyt | Facebook: fb.com/NewPhytologist

New Phytologist journal metrics: CiteScore: 15.7 | Article Influence Score: 2.574 | Impact Factor: 10.323

Apply for the New Phytologist Tansley Medal < https:/-/www.newphytologist.org/awards/tansleymedal >! Deadline: 1 November 2022

"Whitfield, Mike (whitfiel)" <m.whitfield@lancaster.ac.uk>

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OnlineSeminar ESEB STN Speciation Nov8

Dear colleagues,

The next instalment of the online seminar series organised by the ESEB-funded STN network ≪ Integration Of Speciation research ≫ ([https://speciation-network.pages.ist.ac.at/]) will be held on 8 November 2022, 5 pm CET.

The upcoming session addresses the topic of "The genomic architecture of speciation". We welcome as speakers Katie Peichel (University of Bern, Switzerland) and Leonardo Campagna (Cornell Lab of Ornithology, USA).

The session will last 1.5 hours, with the first hour dedicated to talks from our speakers followed by questions. The last half-an-hour is dedicated to a more general discussion.

To attend the session live, please follow the link on our website: https://speciation-network.pages.ist.ac.at/-seminar-series/ . Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/-UClEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The programme of the seminar series is announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically receive the programme and other news from the IOS network can sign up to the network mailing list from the IOS website.

We look forward to seeing you there!

The STN IOS organising committee:

Jonna Kulmuni (chair), Chris Cooney, Sean Stankowski, Carole Smadja (co-chairs), Sonal Singhal, Liz Scordato, Joana Meier, Richard Merrill, Konrad Lohse, Nick Barton and Roger Butlin

–

NERC Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

Online TEandHumanBrianEvolution Dec7

Dear EvolDir,

the abstract deadlinefor the secondconference on Transposable Elements in human brain evolution and diseases is approaching: abstract should be submitted before November 20th, 2022.

The conference will take place on December, 7th2022 at 4 p.m. (CET) and will befully virtual(via Zoom). Registration is free.For info see:https://-transposableelementsbrain.wordpress.com/ Please find below some info about the conference objectives and invited speakers:

Objectives:the conference is organised by Giorgia Modenini, PhD student, and prof. Alessio Boattini, PhD (BiGeA Dept., University of Bologna, Italy). Our goal is to promote the current knowledge on Transposable Elements evolution and their relationship with brain functions and diseases.

Speakers: along with selected abstracts, two invited speakers will be present at the conference: Molly Hammell, PhD and Johan Jakobsson, PhD. Info about their talks can be found on the conference website.

Please spread the news in your networks! We are looking forward to meeting you at the Symposium.

All the best, Giorgia Modenini

Giorgia Modenini, PhD Student

Molecular Anthropology Lab & Centre for Genome Biology

Dept. of Biological, Geological and Environmental Sciences

University of Bologna

Via Selmi, 3 - 40126 Bologna (Italy)

mail: giorgia.modenini2@unibo.it

Giorgia Modenini <giorgia.modenini2@unibo.it>

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Online YoungSystematistsForum Nov11

Jump on it! Abstracts due this Friday, 14 October! Super-sciencey systematics fun online, with global participation, great exchange of ideas!

If you'd like to attend but not present, you can register later.

If you'd like to see whatYSF2021 offered, have a look here: https://systass.org/events/ysf2021/ and a selection of talks can be viewed here:

https://www.youtube.com/channel/-UCeylydRM5zTI5uDrfRCHgQw/videos with previous years' offerings here:https://systass.org/events/24thYOUNGSYSTEMATISTS'FORUM

Friday 11thNovember 2022, 9:30 am GMT

ZOOM Online

The annualYoung Systematists'Forumrepresents an exciting setting for Master's students, PhD students and young postdoctoral researchers to present their work, often for the first time, to a scientific audience interested in taxonomy and systematics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to attend.

Prizes will be awarded for the most promisingtalkandflashpresentation as judged by a small panel on the day.

Registration isFREE.

https://systass.org/events/future-events/ysf2022/
When you register you will be asked to supply your name, contact information and tell us whether you wish to give a full talk or flash presentation.Please also tell us your academic stage - e.g., Masters, PhD or postdoc and affiliation. Abstract submission and registration are separate portals, both on the YSF event page.

Spaces will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-presenting attendees are also very welcome - please register as above.

Abstractsmust be submitted by e-mail in English and in Word format no later thanFriday 14 October 2022. The body text should not exceed 150 words in length. Title, authors, and their professional affiliations/addresses should be included with the abstracts.If the presentation is co-authored, the actual speakermust be clearly indicated inBOLDtext. The file should be in editable format (.doc or .odt, not pdf) and titled Surname_First-name_YSF2022.doc, for example Doe_Jane_YSF2022.doc.

If you have presented a talk at the YSF before, we ask that you submit only for a flash presentation, as speaker slots are limited and we want to give as many people a chance as possible. If you are a more senior postdoc, please be aware that it's unlikely we will be able to give you a chance to present here, as the aim is to give more junior researchers their first experience in a supportive international setting.

All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

If you have questions, feel free to contact us at

ysf@systass.org

Last year's meeting was very dynamic, with wide international attendance and great interactions.

We're looking forward to meeting you online!

YSF 2022 Organising Team:Ellinor Michel,Katie Collins,PabloMuñoz, Ana Serra Silva,Kalman Konyves, Peter Mulhair

With additional sponsorship from: The Natural History Museum, London, Kew Botanical Gardens, CRC Press

Ellinor Michel <e.michel@nhm.ac.uk>

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Roscoff France SexUnfolded Sep11-15

Dear Colleagues,

We would like to draw your attention to an upcoming Jacques Monod Conference:

SEX UNFOLDED : SEX, ASEX, SEXES

September 11-15, 2023 in Roscoff (Brittany), France.

Jacques Monod Conferences, organized by CNRS, are known for the high scientific quality of the talks and discussions, in a relaxed atmosphere. The topics covered by the conference include: the evolution of sex and asex, the genomics of asexuals, meiosis modifications, the evolution of recombination and its detailed mechanisms, the evolution of sex determination and sex chromosomes, sexual conflicts and sex specific selection across genomes.

The list of invited speakers is given below. Information about the conference and how to register will be available soon in a following message.

Symposium Speakers:

Jessica ABBOTT (Lund, Sweden) Doris BACHTROG (Berkeley, California, USA) Jens BAST (Kï¿½ln, Germany) Astrid Bï¿½HNE (Bonn, Germany) Tim CONNALLON (Victoria, Australia) Etienne DANCHIN (Sophia Antipolis, France) Marie DELATTRE (Lyon, France) Nicolas GALTIER (Montpellier, France) Tatiana GIRAUD (Orsay, France) Sylvain GLEMIN (Rennes, France) Christoph HAAG (Montpellier, France) Simone IMMLER (Norwich, UK) Mark KIRKPATRICK (Austin, Texas, USA) Thomas LENORMAND (Montpellier, France) Michael LYNCH (Tempe, Arizona, USA) Gabriel MARAIS (Porto, Portugal) Raphael MERCIER (Kï¿½ln, Germany) Pavitra MURALIDHAR (Davis, California, USA) Aline MUYLE (Montpellier, France) Sally OTTO (Vancouver, Canada) Bret PAYSEUR (Madison, Wisconsin, USA) Max REUTER (London, UK) Tanja SCHWANDER (Lausanne, Switzerland) Henrique TEOTONIO (Paris, France) Karine VAN DONINCK (Bruxelles, Belgium) Stephen WRIGHT (Toronto, Canada) Alison WRIGHT (Sheffield, UK)

We hope to see you there

Thomas Lenormand, Karine Van Doninck, Denis Roze

Thomas LENORMAND <thomas.lenormand@cefe.cnrs.fr>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

SMBE SymposiaProposal DeadlineOct31

Dear All, This is a gentle reminder that the deadlinefor submitting a symposium proposal for the 2023 SMBE meetingis approaching (October, 31st). Please, go tohttp://www.smbe.org/smbe/MEETINGS/-SMBE2023.aspxto learn more aboutthe conference (including the names of the keynote speakers) and to propose a symposium(and obtain the financialsupport).

Below you can also find some info.

Best Regards, SMBE and 2023 LOC #SMBE23

We're delighted to announce that the Society for Molecular Biology & Evolution is now accepting proposals for symposium topics for the 2023 Annual Meeting, taking place in Ferrara, Italy, from July 23rd - 27th, 2023. Selection of proposals will be aimed at spanning the range of interests of SMBE members, including new exciting scientific developments, and representing the geographic and gender diversity of members.

For each accepted symposium we provide financial support up to 5,000 Euros to facilitate symposium organizers in attracting outstanding invited speakers and to contribute to their own travel and lodging expenses. To submit your proposal please click on the link below and follow the instructions. Please complete and submit the form by 11:59pm CET October 31st, 2022. Successful applications will be confirmed by the middle of November. Please email us atsmbe2023@unife.itfor any questions.

Each symposium will include 2 invited speakers and some contributed speakers. Symposium proposals should include a description of the symposium (250 words max) and the names of the proposed invited speakers capable of delivering a talk of high quality and wide interest. At the time of proposal submission, proposed invited speakers should have agreed to accept the invitation in principle. Please explain to all proposed invited speakers that the invitation is conditional on funding of the proposal. For each proposed invited speaker, please indicate whether they have been approached, whether they have expressed their interest in participating, and the likely topic for their talk. The symposium organizers

will also select contributed speakers from the abstracts submitted by registered delegates.

Please visit https://app.oxfordabstracts.com/events/-3607/symposia/create- to access the submission portal.

The final decision on the selection of symposia, invited and contributed talks will be made by the Local Organizing Committee (LOC). Criteria will include quality of the proposals, breadth of interest to SMBE membership, and representation of the diversity of SMBE membership among speakers.

The meeting will be held as a hybrid conference, but the speakers (keynote, invited, contributed) are encouraged to participate in person.

More information about the local organizers, the venues, and the structure of the meeting can be found athttp:/-/www.smbe.org/smbe/MEETINGS/SMBE2023.aspx Best Regards, SMBE and 2023 LOC #SMBE23

Giorgio Bertorelle

Department of Life Sciences and Biotechnology University of Ferrara Phone +39 0532 455743

SMBE2023 in Ferrara Web site of the group

Web site of the Endemixit project

Giorgio BERTORELLE <ggb@unife.it>

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Washington DC MolecularEvolution Mar17-19

We are pleased to announce the Journal of Molecular Evolution Advances Meeting, a scientific meeting March 17-19, 2023 on the American University campus in Washington, DC. Registration is required, but is completely free. The meeting will include invited talks from Journal of Molecular Evolution Editors, from Program Officers from the Evolutionary Processes Panel at the National Science Foundation and the Astrobiology Program at NASA, as well as selected abstracts from abstract submissions. More information and the registration form can be found through the conference website: https:/-/igem.temple.edu/jmev. The meeting is sponsored by Journal of Molecular Evolution together with American University and Temple University's Institute for Genomics and Evolutionary Medicine.

We look forward to seeing you in Washington, DC in March.

David Liberles

David A Liberles <daliberles@temple.edu>

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Wellcome Online ConservationGenetics Nov30-Dec2

Conservation Genomics at the Population Level conference 30 Nov-02 Dec 2022 Wellcome Genome Campus, UK and Virtual

Genomic techniques and analytical approaches for species preservation

Extended abstract and bursary deadline: 04 October 2022 In-person registration deadline: 01 November 2022 Virtual registration deadline: 22 November 2022

Population level analysis of complete genomes is becoming a reality for many species. This new conference will address the different challenges and applications of population-level conservation genomics. Sessions will focus on detecting adaptation and deleterious variation in populations, and linking genetic variation to phenotypic variation. New technologies for data collection and application of genomic insights for biodiversity conservation will be explored.

Keynotes: Eduardo Eizirik (PUCRS, Brazil) Carolyn Hogg (University of Sydney)

Other confirmed Speakers: Hernï¿½n Burbano (UCL) Marta de Barba (University of Ljubljana) Kristy Deiner (ETH Zurich) Laura Epp (Universitï¿½t Konstanz) Laurent Excoffier (University of Bern) Lukas Keller (University of Zurich) Klaus-Peter Koepfli (Smithsonian's National Zoo) Kirk Lohmueller (UCLA) Josephine Pemberton (University of Edinburgh) Beth Shapiro (UCSC) Bruce Whitelaw (University of Edinburgh)

The Wellcome Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Jane Murphy <jane.murphy@wellcomeconnectingscience.org>

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Wellington NewZealand CrustaceanEvolution May22-25

Hello fellow evolutionary biologists,

On behalf of Kareen Schnabel, I want to share an exciting conference for 2023. Do you love crustaceans? Do you love New Zealand? Why not combine these and attend the 10th International Crustacean Congress where the two will converge to bring together carcinologists at the National Museum of New Zealand Te Papa Tongarewa in Wellington.

Please consider attending this exciting event and to learn all about the congress please visit this website here: *www.ICC10.org* Need funding? Opportunities for travel awards are available here: http://-www.thecrustaceansociety.org/scholarship.php (please note the message below.)

Due to the International Crustacean Congress 10 (ICC) starting at May 2023 in New Zealand, the deadline of the student travel awards applications to this meeting is shifted to the end of January 2023 (NOT 15 March 2023). After the TCS committee meeting, we decided the number of awards is increased from 5 to 10, and the amount for each award is increased from 500 USD to 1000 USD, due to the long distance travel. We encourage student members to apply for this travel award to support the travel costs to New Zealand.

Look forward to seeing you all there,

Heather Bracken-Grissom (North American Governor for the Crustacean Society)

Heather Bracken-Grissom, PhD Assistant Director of the Coastlines and Oceans Division Associate Professor, Institute of Environment & Dept. of Biological Sciences North American Governor, The Crustacean Society

Florida International University-Biscayne Bay Campus 3000 NE 151 Street, MSB-361 North Miami, Florida 33181, USA 305 919-4190 (Phone) 305 919-5838 (lab)

CRUSTOMICS: Crustacean Genomics and Systematics Lab *http://www.brackengrissomlab.com/ heather.brackengrissom@fiu.edu <Valerie.Hall@fiu.edu> www.fiu.edu/ ˜ marine

GradStudentPositions

AMNH NewYork ComparativeEvolution

We are now accepting applications for our Ph.D. in Comparative Biology Program and Graduate Fellowships Program at the American Museum of Natural History's Richard Gilder Graduate School for Fall 2023. Deadline: December 15, 2022.

The AMNH Ph.D. Program in Comparative Biology is training the next generation of biologists through an integrative approach focused on the history, evolutionary relationships, and interactions among species. It builds on the Museum's strength and experience in research and training, educating a new generation of scientists to become leaders in understanding the history and diversity of life on Earth and in disseminating their work in ways that will support advances in biological research, human health, biodiversity conservation, and other related fields. This is an accelerated program, designed for students to complete their degrees in four years. The Richard Gilder Graduate School will typically provide full financial support to students matriculating in the Comparative Biology Ph.D. Program.

We also offer Ph.D. Graduate Fellowships for students interested in earning a Ph.D. at one of our partner institutions. The AMNH Graduate Student Fellowship Program is an educational partnership with selected universities, dedicated to the training of Ph.D. candidates in those scientific disciplines practiced at the Museum. Our current collaborations are with Columbia University, City University of New York (CUNY), Cornell University, Stony Brook University, and New York University (NYU). The host university in which the student enrolls exercises educational jurisdiction over the students and formally awards the degree. In these partnership programs, at least one Museum curator must serve as a graduate advisor, co-major professor or major professor, and adjunct university faculty member. Each student benefits by having the staff and facilities of both the university and the Museum to support his/her training and research. To be eligible for the AMNH Graduate Fellowship, students must apply to both the host University's Ph.D. program and to the AMNH Graduate Student Fellowships Program. Students already matriculated in a Ph.D. program are not eligible to apply; only new, first-time Ph.D. applicants will be considered.

Students who plan to apply to both the RGGS Comparative Biology Ph.D. Program and to the Graduate Fellowship Program complete one single application, indicating on the application the program(s) to which they wish to apply. Students applying for the Graduate Fellowship must also apply for admission to at least one Ph.D. Program at one of the Museum's Partner Institutions.

Applicants are strongly encouraged to contact a member of the faculty prior to application (see: https://www.amnh.org/research/richard-gilder-graduate-school/faculty)

For more information and to apply, please go to: https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/doctoral-student-fellowships
Anna Manuel <amanuel@amnh.org>

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golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

Barcelona
PredictingAdaptiveEvolution

Graduate (PhD) position

Predicting evolution in complex adaptive landscapes

1.Basic job and project description:

- Paid 4 year position to do a PhD in the Autonomous University of Barcelona (UAB).

- Topic: Mathematical modeling of evolution in complex adaptive landscapes. This implies modeling evolution, gene network dynamics, quantitative genetics, development and population genetics.

- This position is ideal for those biologists with an interest in theory and in the evolution of complex phenotypes. This includes also students interested in evo-devo, quantitative genetics, population genetics and development.

- Although some computational methods will be used, this position is for a biologist (or similar) No experience in bioinformatics is required.

2. Introduction to the topic of research

How is it possible that complex structures like the human brain or the molecular machinery within cells have evolved? Current evolutionary theory provides the basic principles to understand such evolution but its theoretical core, population genetics, does not incorporate models of how genes interact or on how they interact with cell and tissue properties. This is a bit of a limitation since, clearly, complex phenotypes are built through complex networks of gene and cell interactions. Besides, although mutation is random, the structure and dynamics of these networks determine how phenotypes change when there are mutations in some of their genes. In other words, these networks determine the which phenotypic variation is possible and likely (i.e. the directions of phenotypic variation). Current evolutionary biology does not understand well which types and directions of phenotypic variation arise in populations. Having such understanding is crucial to understand the direction of evolution since natural selection can only act on phenotypes that have arisen in each generation (i.e. the possible directions of variation). Understanding how the networks that construct the phenotype determine, together with natural selection, the direction of evolution is one of the main current challenges in evolutionary theory.

- The research will be in any of these three related lines:

2.1. Models to predict evolution.

The networks determining possible phenotypic variation are complex. However, by understanding some aspects of their dynamics, we can understand which phenotypic variation they can produce. For example, by computational models of gene networks during embryonic development we have obtained an understanding of the directions of variation most likely to occur in specific phenotypes (mammalian teeth, see Salazar-Ciudad and Jernvall, 2010). In a way these models describe the space of phenotypes within which a population would evolve over time. If information about natural selection is available, then these models can be used to predict how phenotypes evolve. This is literally a prediction on how traits in a phenotype (e.g. a wing shape) will change over generations. Our research consists in building such prediction approach in general and also applying it to specific cases of evolution. By specific cases of evolution we mean actual experimental evolution. We are doing artificial selection experiments in which we select flies based on specific aspects of their wing morphology. We also have a computational model of wing development and we are adapting it into an evolutionary model with which we try to predict how wing morphology evolved in these experiments.

2.2 Evolutionary theory under complex genotype-phenotype maps.

Most of evolutionary theory developed at a time when not much was known about which directions or types of phenotypic variation are possible from gene networks and development nor about the genotype-phenotype map. As a result, its main mathematical models and concepts are based on the assumption that this latter map is simple or by ignoring it all together. The aim in here is to build general models of evolution that realistically consider the networks that construct the phenotype and its variation. These models will then be used to explore how, or whether, many of the ideas and conclusions of current evolutionary theory change (or not). These models will also be used to address questions that current evolutionary theory cannot explain, does not aim to explain or that, simply, could be explained better by considering gene networks and development, such as: the evolution of development and gene networks, the direction of evolution in the short and long term, how evolution in complex adaptive landscapes is possible, how complex phenotypes can evolve, etc.

2.3 Any other question of the applicant's interest that is related to the previous questions.

3. Requirements:

- Candidates should have a University Degree and a Master's Degree in biology or related topics within the European Higher Education System (minimum 300 ECTS) or equivalent by September 2022.

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

BielefeldU BirdsOfPreyEvolution

We are looking for a bright and ambitious student to join our research on common buzzards, goshawks, eagle owls and other birds of prey. Together with us you will use cutting-edge technologies to better understand and write many high-profile publications about the ecology, morph-dependent host-parasite interaction behaviour, physiology and transcriptomics of these fantastic birds!

WHERE: If you decide to join this research adventure, you will be joining our team at the Department of Animal Behaviour in Bielefeld University, Germany. Field work takes place around Bielefeld, where we have been studying the raptor populations over 30 years. ? WHAT YOU WILL BE DOING: You will be analysing and writing papers, based on your own scientific creativity and initiative and a unique long-term dataset. Your personal involvement in the long-term project will also include seasonal field work: nest searching and checks during spring and summer, nest video surveillance, sampling of raptor nestlings, as well as combining analyses of transmitter tags, transcriptomic and life history data. Both field work and analyses are very demanding, so genuinely enjoying both is essential, as are previous experience and ambition to push boundaries. We seek a highly motivated student with a MSc degree or equivalent in a relevant field (e.g. animal behaviour, behavioural ecology, population ecology, evolutionary ecology, wildlife -omics, ornithology, parasitology) who wants to conquer the scientific world while working with the coolest birds possible. Organisational skills, knowledge on hot topics in ecology and evolution, and overflowing with own ideas in these fields are indispensable. The ideal candidate will be able to work both independently and as part of a multidisciplinary team, will have experience in statistics and/or bioinformatics and excellent spoken and written English.

WHAT WE OFFER YOU: A stipend of 1250 Euro for one year -time for you to crystalize, write up, submit and receive funding for your own PhD project, together with us. Doing homework and having solid pre-formed ideas for action, fitting to past efforts, existing infrastructure and/or unexplored gaps, will make this process much more efficient. Once the funding is granted you will start a 3-year PhD position (salary 65% 13 TV-L) including many training opportunities. The student will be supervised by Nayden Chakarov and Oliver Kr?ger. Our department is the oldest of its kind in Germany and currently hosts seven principal investigators, ten postdocs, and 20 PhD students from over ten different countries working on related topics in behaviour, ecology, and evolution. It offers a stimulating international environment and an excellent research infrastructure. The working language is English. Bielefeld is a city of 333,000 inhabitants, having an odd blend of big city flair with pockets of quiet, simple rural life and easy access to the Teutoburger Forest for hiking and other outdoor pursuits.

WHEN: As soon as possible. The field season starts in March and optimally then you will already have a good plan and collect data for your own project.

HOW TO APPLY: Please send as a single PDF file (i) your CV, (ii) a 1-2-page letter of motivation including a statement of your research experience and how it fits the specific project, (iii) a 1-2 page research proposal, including ideas what specifically you might want to ask and discover over the next 3-5 years and why it would deserve investment and (iv) the contact details of three referees to: nayden.chakarov@uni-bielefeld.de. Review of applications will begin upon arrival. For further information, please see the webpage ?or contact Nayden Chakarov via email.

The University of Bielefeld is an equal opportunity employer. We particularly welcome applications from women and handicapped people. Given equal suitability, qualifications and professional achievement, women and handicapped people will be given preference, unless particular circumstances apply.

nayden.chakarov@uni-bielefeld.de

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BinghamtonU EvolEcolIntegrativeBiol

The Department of Biological Sciences at Binghamton University (State University of New York) is seeking qualified applicants for admission to our PhD program for the Fall of 2023. Our department of 25 faculty members and >50 PhD students encompasses a wide range of research programs organized around three overlapping foci of Global Change Biology, Genetic & Molecular Interactions, and Infectious Disease. Our strengths in evolution, ecology, and integrative biology span across all three of these research clusters.

Faculty members potentially recruiting new students this year include:

-Adam Session - evolution of genome structure and polyploidy (https://adamsession.com/)

-Anthony Fiumera - ecological genetics and genomics of complex traits (http://bingweb.binghamton.edu/~afiumera/home.html)

-Heather Fiumera - mtDNA and mitonuclear contributions to adaptation and speciation, mitochondrial genetics, yeast genetics (https://hfiumera.wixsite.com/bubioblasts)

-Jay Sobel - genetics and genomics of speciation and adaptation in Mimulus and other flowering plants (http://www.sobel-lab.com/)

-Kirsten Prior - community ecology, invasion biology, altered species interactions under global change (www.priorecologylab.com)

-Tom Powell - speciation and evolutionary responses to climate change in insects including apple maggot (Rhagoletis) flies and gall formers (www.powellevolab.com)

-Laura Cook - mechanisms of host/microbe interactions and pathogenicity in gram negative bacteria (https://www.lauracooklab.com/)

-Peter McKenney - the role of gut microbiome dynamics in determining virulence of pathogens (https://mckenneylab.org)

-Karin Sauer - regulation and signalling of biofilm development (https://ksauer0.wixsite.com/biofilm)

-Claudia Marques - interactions within multispecies biofilms and between biofilms and hosts (https://bingweb.binghamton.edu/~cmarques/index.html)

-Weixing Zhu - urban ecology and biogeochemistry (https://sites.google.com/view/wxzhu/home)

Our program provides a highly interactive and supportive setting for graduate training. PhD students are funded through a combination of TA positions, RAs, and fellowships, including the university's Clifford D. Clark Diversity Fellowship. Students can take advantage of several interdisciplinary programs on campus, including the Center for Integrated Watershed Studies, the Binghamton Biofilms Research Center, the Center for Collective Dynamics of Complex Systems, Evolutionary Studies Program, and "Transdisciplinary Areas of Excellence" for Data Science, Sustainable Communities, and Health Sciences. Resources include molecular core facilities, an ecological research facility embedded within the University's extensive on campus Nature Preserve (https://www.binghamton.edu/nature-preserve/index.html), a 4,000+ sq ft research greenhouse, a living collection of over 1,200 plant species in the E.W. Heir Greenhouse, and the new acquired Nuthatch Hollow bird sanctuary.

Binghamton University is the top-ranked institution in the SUNY system and is consistently rated as one of the premier public universities in the Northeast. BU is included in the Carnegie Classification system's "very high research activity" (R1) category. Our 930 acre campus is located in the Southern Tier of New York, between the Catskills and Finger Lakes, about a 3 hour drive from NYC. The region features abundant opportunities for outdoor recreation and a very reasonable cost of living.

Prospective students should contact potential advisors before applying. Instructions for official applications can be found on the Binghamton University Graduate School's website - https://www.binghamton.edu/graduate-school/admissions/requirements.html. GRE scores are not required. To ensure full consideration by our department's graduate committee for our Fall 2023 cohort, all application materials should be submitted by December 15, 2022.

Thomas H. Q. Powell Assistant Professor Department of Biological Sciences Binghamton University powellt@binghamton.edu

"powellt@binghamton.edu" <powellt@binghamton.edu>

BiologyCentre CZ HybridPlantInsectInteractions

Graduate position: Biology.Centre.CZ.Hybrid.plant.insect.interactions

PhD Studentship in Insect-Plant Interactions Hybridization as a path to success? Adaptive hybridization in willows in face of biotic and abiotic pressures

We are looking for an enthusiastic candidate to join a project by funded Czech Science Foundation that aims at exploring if the hybridization in plants is fuelled by the adaptive value of hybrids in face of biotic and abiotic selection pressures. The project focuses on willows as a diverse and dominant key-stone plant genus to explore the distribution of their hybrids in natural communities and to dissect their interactions with insect herbivores and environment along elevational gradients. This is a highly interdisciplinary project. The successful candidate will conduct field work aimed at collecting insect and plant samples, join metabolomics and genomics analyses exploring chemical traits and genetic variation among the hybrids, and integrate these various types of data with biostatistics and bioinformatics methods.

We are looking for candidates that have

* a MSc degree (non-negotiable requirement for applying for this PhD programme) * a deep interest in the community ecology of plants and insects * experience in both field work and lab work * excellent skills in biostatistics * previous experience in bioinformatics (optional) * fluency in spoken and written English

* an ability to work independently * a driving license (optional, but highly recommended)

The successful applicant will join the Ecology Department at the Institute of Entomology, Biology Center of the Czech Academy of Science and the Zoology Department of the University of South Bohemia. The PhD study will be supervised by Dr. Martin Volf (link below). The candidate will live in Ceske Budejovice (Czech Republic) where the studies will take place. The programme offers an opportunity to conduct the laboratory work in the Czech Republic and abroad, within a collaborative network of our colleagues from Europe and overseas. The field work involves sampling in the Czech Republic and in the Alps Austria. Our department is a diverse, international team studying ecology, evolution and biogeography, and a world-class centre for interaction network research with regular publications in leading journals.

The deadline for applications is November 30th 2022. The best candidates will be interviewed in early December. The successful applicant is expected to start on February 1st 2022 (later start date negotiable). The student will receive a scholarship fully covering living expenses in the Czech Republic for 3 years. Applicants from all countries are eligible. To apply please send a CV, contact details for three references, and a cover letter stating qualifications, previous work and motivation to Dr. Martin Volf (volf@entu.cas.cz) where you can also send any queries.

External Links Czech Academy of Science : https://-www.entu.cas.cz/en/homepage/ Zoology Department of the University of South Bohemia: http://zoo.prf.jcu.cz/-?lang=en Ceske Budejovice : https://en.wikipedia.org/-wiki/%C4%8Cesk%C3%A9_Bud%C4%9Bjovice
Volf lab: https://www.volflab.com/ Volf Martin <volf@entu.cas.cz>

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FrenchGuyana Paris Vienna DrosophilaMicrobiome

PhD Position at the University of Guyana, Cayenne, French Guyana in collaboration with Paris Saclay, France and the Medical University of Vienna, Austria

We are searching for a highly motivated PhD student to join an IRD-funded research project studying the role of the microbiome in facilitating the successful spread of invasive Drosophila species in natural populations of the Amazonian rainforest. The PhD research project will be tightly embedded and supervised in joint guardianship between the University of Guyana and University of Paris-Saclay by Mathieu Chouteau (LEEISA) and Aurélie Hua-Van (EGCE), and will benefit from the co-supervision of Wolfgang Miller of the Medical University of Vienna. The PhD student will be mainly based in French Guiana in the LEEISA laboratory, in the EEBA team of Mathieu Chouteau, but may be required to spend time in the European laboratories in Paris and Vienna which are tightly associated with the project. He/she will have access to the CNRS campus of Montabo, Cayenne (DNA laboratory, equipment, server), and will be able to use the vehicles of the site

for his/her collection missions. The successful candidate will be embedded in a collaborative research team mainly at the University Guyana, South America, but also at the University Paris Saclay, France, and the Medical University of Vienna, Austria. She/he will need to apply a multilevel experimental approach to address the project's research goals.

Project Background and Significance: The Amazon rainforest is one of the richest areas of the planet in terms of biodiversity, but in great danger due to human activities, global warming, or the expansion of invasive species. These invasive species compete with native species and their success can be accompanied by the transmission of the microbiome (bacteria, viruses) that they harbor. This microbiome, which may have a beneficial role (protection, speciation) in their usual hosts, may affect the fitness of new hosts at various scales (reproduction, physiology, nutrition), thus massively weakening local biodiversity and increasing the risk of extinction. While the microbiome is well studied mainly in model species in the laboratory, we have little information on its complexity and dynamics in nature. Drosophila represent a model of choice for the study of microbiome dynamics, due to the promiscuity of species that share their feeding and oviposition sites. In French Guiana, which is mainly covered by primary rainforest, the high diversity of endemic Drosophila species is endangered severely by the regular arrival of potentially invasive challengers from metropolitan France via human activity.

Thesis topic: This thesis is aimed to uncover the diversity and dynamics of the microbiome in endemic and invasive Drosophila species, and the risks of their reciprocal transfer and trans-infection in (i) their natural conditions (field), (ii) semi-natural (field cages), and (iii) controlled laboratory conditions. In a first step, the PhD student will collect systematically Drosophila specimens at different seasonal times and locations (reflecting an anthropic gradient). The collected species will be identified via COI barcoding, which will allow to describe the diversity of this group of species. The microbiome will be identified by DNA or RNA sequencing of specimens grouped by species. This will allow to evaluate the introgression rate of the microbiome from invasive species. In a second step, the PhD student will set up experimental evolution experiments in semi-natural conditions (population cages) in order to measure the relative fitness of native and invasive species under different conditions and to specify the transfer rates of the microbiome under controlled conditions. Finally, the effect of microbiome deletion or exchange will be tested in the laboratory on wild-derived isofemale lines stripped of their natural microbiome and brought into contact with the feces of other species.

Your qualifications: Applying candidates should have a keen interest in field as well as laboratory work using the model system Drosophila, microbiology, genomics, population genetics, plus a high degree of scientific curiosity. An excellent background in molecular biology, very good experimental skills and an MSc degree in molecular life sciences, or a related field are required as well. Earlier experience in any of the mentioned field will be an added advantage. Good communication skills, fluently speaking French and English, independence, and a high sense of responsibility are required. The successful PhD candidate will be enrolled in the Doctoral school program: ED 577 Structure and Dynamics of Living Systems from the Université Paris-Saclay, and ED of the University of Guyana in joint guardianship. The salary will be de 2.765 euro monthly for 3 years.

The starting date is December 1st, 2022.

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

LinnaeusU Two Biodiversity

The Linnaeus University Centre for Ecology and Evolution in Microbial model Systems (EEMiS) is recruiting two PhD students in the field of marine ecology. The first will focus on controls and species succession in the microbial food web across organism levels ranging from micro- and nanograzers, to picoplankton and virus. The second will investigate spring phenology, biodiversity, and production in the food web including zooplankton and semi-aquatic macroinvertebrates.

For more information use the links below:

https://lnu.se/mot-linneuniversitetet/Lediga-jobb/-?rmpage=job&rmjob=6959&rmlang=SE https://-lnu.se/mot-linneuniversitetet/Lediga-jobb/?rmpage=-job&rmjob=6958&rmlang=SE Contact persons: Hanna Farnelid hanna.farnelid@lnu.se; Samuel Hylander samuel.hylander@lnu.se

The project are part of a larger multidisciplinary project within the Linnaeus University Centre for Ecology and Evolution in Microbial Systems (EEMiS) that seeks to understand the consequences of environmental change on phenology and interaction strengths across trophic levels in the coastal food web of the Baltic Sea.

Welcome with your application or please spread this in your networks!

Deadline: 15 November

Markus Zï¿½ttl <markus.zottl@lnu.se>

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LMU Munich AvianCompetition

Social competition within- and among-species: drivers of pace-of-life in wild passerine birds? PhD-position in Behavioral Ecology at LMU Munich

Application deadline: 15.11.2022

Project description. The field of behavioural ecology increasingly focuses on why individual animals differ in suites of behavioural and morphological traits, and whether those differences are associated with life-history variation. A key question is whether life-history trade-offs explain the evolutionary maintenance of this variation in "pace-of-life syndromes". There is much debate on this issue because life-history trade-offs cannot by themselves maintain variation. This project will test predictions of a novel eco-evolutionary explanation that has great potential to resolve this debate. The framework explains variation among species, populations, and individuals alike. We propose that variation in pace-of-life results from trade-offs between intrinsic rate of density-independent reproduction and competitive ability. This incorporates ecological variation required to maintain variation as faster (vs. slower) paces-of-life are favoured when competition for resources is relaxed (vs. intensified). We will test this idea by combining behavioural ecology and quantitative genetics, and by using experimental and population comparative approaches.

The PhD-student will (1) manipulate intra- and interspecific competitive regimes as drivers of selection on pace-of-life syndromes within and among sympatric nest box populations of blue and great tits. (2) Use DNA metabarcoding of faecal samples to estimate relative abundances of arthropods in the tits' diet to study whether habitat selection and dietary specialisation mediate pace-of-life-related adaptations to intra- and interspecific competitive regimes. (3) Study whether competition-related selection on pace-of-life can explain variation in behaviour, morphology, and life history among and within species.

Research and Project group. The PhD-student will work in the Behavioural Ecology Group at LMU. The group works broadly on individual behaviour and life-history, and consists of 5 PhD-students and 3 postdocs, offering a dynamic social environment. The PhD-student will collaborate closely with the project's postdoc (Dr. Barbara Class), who will focus on social selection and indirect genetic effects analyses of long-term pedigreed datasets of >40 European tit populations with members of SPI-Birds as part of this project. The PhD-student will collaborate with Prof. Kees van Oers (NIOO, Wageningen) and Prof. Both (University of Groningen) on metabarcoding, with Dr. Culina (Ruder Boskovic Institute), Prof. Visser (NIOO) and SPI-Birds members on collaborative SPI-Birds projects, and with various other international partners.

Requirements. The successful candidate should have background training in quantitative genetics, evolutionary biology, and/or behavioural ecology. We are looking for candidates that have experience with fieldwork, bird handling, are able to work independently, and coordinate large teams. The candidate should be trained/interested in advanced statistics (e.g. mixed and animal model analyses). Social skills are important for fieldwork execution and SPI-Birds collaborations. Successful candidates speak fluent English.

Project duration and starting date. Successful candidates will be offered a three-year PhD-position funded by a grant of the German Science Foundation to Prof. NJ Dingemanse. Starting date is 01.01.2023.

Application package. Candidates should send a motivation letter and CV to Prof. N. Dingemanse over email (n.dingemanse@lmu.de). Submission deadline is 15.11.2022. Interviews will be scheduled on 21.11.2022 and take place online.

Niels Dingemanse <dingemanse@biologie.uni-muenchen.de>

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LMU Munich AvianEpigenetics

PhD Position in Evolutionary Epigenetics

A PhD position investigating the relevance of epigenetic variation in natural populations to evolution is available in the research group of Jochen Wolf at Munich University, Germany This project is part of a collaborative

effort involving several avian research groups in Europe.

Background

Since the merger of Darwinian evolution and Mendelian hereditary principles at the onset of the 20th century, genetic variation has been at the core of evolutionary research. Genome-wide scrutiny of genetic variation segregating in natural populations has provided fundamental insights into the evolutionary processes underlying adaptation and speciation. Yet, calls for incorporating epigenetic modifications of the DNA blueprint into an extended evolutionary synthesis have repeatedly been made. And indeed, epigenetic variation constitutes an important modifier of phenotypic variation and may promote plastic responses allowing populations to explore novel niche space. Evolutionary relevance of epigenetic modification, however, will depend on the relationship between environmental inducibility and transgenerational stability independent of the underlying genetic variation. Comprehensive data on both of these aspects are scarce.

The Project

The research program proposes to fill this knowledge gap using a broad geographic sampling regime of several thousand individuals from pedigree-informed natural populations of two avian species as a model: the great tit, Parus major, and the blue tit, Cyanistes caeruleus. The experimental setup is suited to characterize the intrinsic and external forces shaping diversity in 5mC DNA methylation across various scales of integration. WBGS and RRBS data extracted from all individuals allows quantifying the inheritance patterns of these epigenetic marks within families (broods) leveraging additional power from extra pair young. It is also suited to determine the extent of population-level epigenetic variability across diverse environments. In addition, evolutionary rates of epigenetic profiles can be assessed across larger evolutionary timescales by comparison to 5mC datasets of more distantly related avian species.

Qualifications The successful applicant holds a master degree in a relevant subject and is skilled in bioinformatic analyses with large genome-wide data sets. Previous experience with epigenetic work, quantitative genetics and/or statistical modelling (e.g. linear mixed models) is a clear asset.

Research environment of the host lab The Wolf lab applies an integrative approach to explore micro-evolutionary processes and genetic mechanisms underlying species divergence, adaptation and genome evolution (1, 2). Using large-scale genomic approaches combined with field based experiments, we characterize genetic diversity within and between populations and assess its relationship to phenotypic divergence (3-6) - sometimes interpreting the data under a conservation angle (7, 8). In addition, we explore methodological aspects of data analyses (9, 10) and investigate the evolutionary forces shaping genomes (11, 12). Empirical systems currently include birds (swallows, cuckoos and corvids (4-6, 13, 14)), marine mammals (pinnipeds and killer whales) (8, 15) and fission yeast (16, 17). More information on the research activities in the lab can be found at http://www.evol.bio.lmu.de/research/-j_wolf/index.html . The University of Munich is consistently ranked among the top Universities worldwide, in particular the life science branch with its life science campus offering excellent technical facilities and many interaction possibilities including the Gene Centre, several Max-Planck-Institutes and the Helmholtz Centre (http://www.campusmartinsried.de/en/336-2/-#). With the highest concentration of supercomputing in Germany the Leibniz Supercomputing Centre and its local partners provide access to state-of-the art computing facilities (https://www.lrz.de/english/). Munich, Bavaria's capital, is a vibrant, yet relaxed city with many traditions still alive, a high quality of living and the Alps nearby.

How to apply Applications including a CV, a statement of motivation and the contact details of at least two references in a single .pdf should be sent to evolution@bio.lmu.de with subject header 'epigenetic position'. The position remains open until filled, starting date as soon as possible.

Literature reflecting lab interests

1. J. B. W. Wolf, H. Ellegren, Nat. Rev. Genet. 18, 87-100 (2017). 2. J. V. Peñalba, J. B. W. Wolf, Nat. Rev. Genet. 21, 476-492 (2020). 3. A. B. A. Shafer, J. B. W. Wolf, Ecol. Lett. 16, 940-950 (2013). 4. U. Knief et al., Nat. Ecol. Evol. 3, 570-576 (2019). 5. J. W. Poelstra et al., Science. 344, 1410-1414 (2014).

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LMU Munich Taxonomics

The Prinzessin Therese von Bayern Chair ofSystematics, Biodiversity & Evolution of Plants at the Ludwig

MaximilianUniversity of Munich led by Prof. Gudrun Kadereit is offering aPhD position inthe framework of the DFG-SPP1991 TaxonOMICS, supervised by Dr. Anze ZerdonerCalasan

PhD position

TVL-E13, 65% - for 3 years; open from April 1st2023

>From humid tropics into the arid zones: phylogenomicsof Amaranthaceaesensu stricto(Caryophyllales)

The Amaranthaceae/Chenopodiaceae alliance comprises twomorphologically and physiologically variable clades that arose through ancient,rapid diversification. AlthoughAmaranthaceae and Chenopodiaceae are nowrecognized as a single plant family (Amaranthaceae s.l.), there is a starkcontrast between these two taxa. Amaranthaceaes.s.has its highestspecies diversity in the tropics andsubtropics, underwent at least three polyploidization events, and has markedly fewerC4species than Chenopodiaceaes.s.In contrast,Chenopodiaceaes.s.is rich in C4species that radiated rapidly in semi-arid, arid and saline habitats worldwide,and did not undergo any significant polyploidization events. The evolutionaryhistory ofChenopodiaceaes.s.hasbeen thoroughly investigated in recent years, but evolutionary studies inAmaranthaceaes.s.are less complete. This uneven situation precludescomparativestudies of these two major taxa within Amaranthaceaes.l.that could yield key insights into theevolution of their clear physiological and ecological differentiation.

The successful applicant will perform a phylogenomicstudy using a target enrichment sequencing approach with a custom bait setdeveloped in the Kadereit lab, and apply it on arepresentative sample of Amaranthaceaes.s.taxa. The aimsof this project aremanifold, and include: a) placing the evolutionary history of Amaranthaceaes.s.into time and space; b) reconstructing tropical-xeric biome transitions and anyassociated morphological and/or physiological characters, and c) comparing the evolutionary history of Amaranthaceaes.s.with that of former Chenopodiaceae, especially with respect to C4photosynthesis evolution.

We are looking for a candidate interested in floweringplant systematics, taxonomy, evolution, diversification, adaptation and/orbiogeography with a Master of Science degree and abackground in botany,systematics, molecular phylogenetics and/or evolution. Some experience withbioinformatics analysis of sequence data, analyses of trait evolution and/orhistoricalbiogeography reconstructions as well as good command of the Englishlanguage are required.

The workplace is the Chair of Systematics,Biodiversity & Evolution of Plants at the Ludwig Maximilian University of Munich(Menzinger Straße 67, 80638 Munich, Bavaria, Germany;https://www.en.sysbot.bio.lmu.de/-index.html), which is closely associated with the BotanicalGarden Munich - Nymphenburg and the Herbaria M and MSB.

Please submit the following paperwork (in English): - Shortcover letter explaining your motivation - CV(including the names of one or two references and a publication list) - Certificateof completion and degree certificate (if not available yet, please state thatin your cover letter)

The submission deadline is December 15th2022.

Please submit your application by email (in one PDF,max. 5MB) to Dr. Anze Zerdoner Calasan (A.Zerdoner@lmu.de).

The Ludwig Maximilian University Munich is an equalopportunities employer and particularly encourages applications from women whoare under-represented in the University at thislevel/in this discipline. Additionally,handicapped applicants will be preferred if equally qualified.

Dr Anze Zerdoner Calasan Deputy Speaker of the Section Biodiversity and Evolutionary Botany Systematics,Biodiversity and Evolution of Plants Faculty of Biology Ludwig MaximilianUniversity of Munich Menzinger Str. 67, 80638Munich Phone:+49 (0)89 17861 285 |E-Mail:A.Zerdoner@lmu.de

AnÂe Âerdoner Ãalasan <A.Zerdoner@lmu.de>

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MNHN Paris PhylogenyOfCyclocephalineScarabs

Dear all,

A funded PhD position (3 years) on the phylogeny of cyclocephaline scarabs and the study of evolutionary history of chemical communication is available at the MNHN in theISYEB lab (https://isyeb.mnhn.fr/-fr). The PhD is part of a ANR (French National Research Agency) project “CHEMOCYCLO” and start is expected in January 2023. Deadline for application: November 20th 2022.

More details at https://drive.google.com/file/d/1PH5-K1ZB3AbKm0PUyb6CCOPnG8JxgUtP/view?usp=-

sharing .

Best regards,

Romain Nattier

Maï¿½tre de confi¿½rences

Institut Systï¿½matique, Evolution, Biodiversitï¿½ (ISYEB) Musï¿½um national d'Histoire naturelle UMR 7205, MNHN, CNRS, Sorbonne Universitï¿½, EPHE CP50, 45 rue Buffon 75231 Paris Cedex 05, FRANCE

https://isyeb.mnhn.fr/fr/annuaire/romain-nattier-2602 Romain Nattier <nattier@mnhn.fr>

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MPIO Seewiesen EvolutionCognition

Opportunity!

Projects available for Master's students and self-funded guest researchers in Comparative Cognition Research Station at Tenerife, Spain run collaboratively between the Max-Planck Institute for Ornithology and the Loro Parque Foundation

The Max-Planck Comparative Cognition Research Group (CCRG)

https://www.bi.mpg.de/von-bayern invites applications from Postgraduate/Undergraduate students and Interns who want to assist in research projects and bird care, enrichment and management. The CCRG is part of collaboration between the Max-Planck Institute for Ornithology, Germany, and Loro Parque Fundación (LPF) in Tenerife, Spain. We are currently carrying out several projects on parrot intelligence. We work with mostly tame, captive parrots of LPF, which owns the largest collection of parrots and genetic reserve in the world (approximately 350 subspecies) for conservation and research purposes. Interested candidates are encouraged to contact us to request information about ongoing projects. Selected applicants will gain experience in the field of cognitive research, as well as working with and training exotic parrots in a highly dynamic international research environment. A unique opportunity!

Preferable time of joining: It is highly preferable if students can join by November/December 2022

Logistics: The projects for Master's theses and guest researchers require a minimum of 4 months but ideally 6 months of continuous commitment at the research station in Tenerife, Spain.

Accommodation can be provided in a shared student apartment (Puerto de la Cruz, Tenerife, Spain), with affordable facilities. Students with their own funding or grants can apply for the posts.

Important skills/qualifications:

Selected candidates need to have:

- High motivation and commitment to the care of our birds - Preferably pursuing Master's degree in Biology/ Psychology/Animal Science or related subjects. - Reliability, efficiency and ability to work independently - Confidence to interact with animals - Good verbal English skills - Good teamwork attitude and social skills

Submit your request!

For more information on how to apply, please email Dr. Anastasia Krasheninnikova (akrashe@orn.mpg.de), or Msc Esha Haldar (ehaldar@orn.mpg.de).

"Krasheninnikova, Anastasia" <AKrasheninnikova@bi.mpg.de>

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NorthCarolinaStateU PlantEvolution

Ph.D. position in Plant Evolutionary Ecology Department of Plant and Microbial Biology North Carolina State University

The Sheth plant evolutionary ecology lab in the Department of Plant and Microbial Biology at North Carolina State University (Raleigh, NC) invites applications for 1-2 Ph.D. students beginning in Fall 2023. We combine field, greenhouse, and growth chamber experiments, demographic modeling, and quantitative genetics to examine constraints to adaptation to climate across species geographic ranges. We strive to foster an inclusive environment where people from all backgrounds are respected and we especially welcome applicants from groups that have historically been underrepresented or excluded. We value the safety of all team members in the lab and field.

Students will be funded through a combination of teaching assistantships and research assistantships associated

with one of two collaborative, NSF-funded projects examining eco-evolutionary responses to climate change. Both projects involve large-scale quantitative genetic field experiments that are latitudinally arrayed: one with the annual legume Chamaecrista fasciculata in the eastern United States, and the other with the perennial herb Mimulus cardinalis in the western United States. Please see www.seemasheth.weebly.com/research for descriptions of both projects.

NCSU and the Research Triangle

NC State's Department of Plant and Microbial Biology offers a highly-rated research environment and is situated in a collaborative and scientifically stimulating atmosphere in the Research Triangle, with both UNC Chapel Hill and Duke University nearby. There is a vibrant and growing community of ecologists and evolutionary biologists spread across multiple departments on campus, including Applied Ecology, Biological Sciences, Entomology and Plant Pathology, Forestry and Environmental Resources, Soil and Crop Sciences, and Biochemistry, among others. Raleigh is a lively yet affordable city with a high standard of living, and its surroundings offer numerous recreational activities.

To apply

Prospective graduate students should apply to the Plant Biology Graduate Program. Before submitting a formal application (due January 15), please send the following information to Dr. Sheth at ssheth3@ncsu.edu no later than December 1: 1) CV; and 2) a statement of your academic background and previous research experience, current research interests, and why you want to join the lab.

Seema Sheth (she/her) Assistant Professor Department of Plant and Microbial Biology North Carolina State University seemasheth.weebly.com

Seema Sheth <ssheth3@ncsu.edu>

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NorthDakotaStateU EvolutionaryPhysiology

Graduate Student Position in Physiological and Evolutionary Ecology

The Heidinger lab seeks a highly enthusiastic and motivated Ph.D. student to join the lab (https://sites.google.com/site/heidingerlab/home) in the Biological Sciences Department at North Dakota State University (NDSU) in Fargo, ND.

The student will contribute to an integrative, NSF funded study examining how house sparrows are responding to climate change along a latitudinal gradient and develop projects related to this general theme. The student will join a highly collegial and dynamic research group and department with several researchers with expertise in evolutionary ecology, physiology, and behavior. The student will also collaborate with a network of scientists at other institutions and gain skills in avian field research, and hormone and molecular analyses.

The position will begin by the Fall 2023 semester and competitive stipend funding and tuition waivers via teaching and/or research assistantships are available to support this position. Students may enroll in either the Biological Sciences or the Environmental and Conservation Sciences graduate programs at NDSU (https://www.ndsu.edu/biology/academics/graduate_education/).

If you are interested in this position, please contact Dr. Britt Heidinger at britt.heidinger@ndsu.edu no later than December 1st, 2022. Please include the following information in your email: 1) a brief cover letter outlining your research interests and experiences and reason for applying for this position, 2) a curriculum vitae that includes your GPA, and 3) contact information for two potential references.

Britt J. Heidinger, Ph.D. (she/her/hers)

Associate Professor

Department of Biological Sciences North Dakota State University Phone: 701-231-5377

Email: britt.heidinger@ndsu.edu

Website: https://sites.google.com/site/heidingerlab/home We collectively acknowledge that we gather at NDSU, a land grant institution, on the traditional lands of the Oceti Sakowin (Dakota, Lakota, Nakoda) and Anishinaabe Peoples in addition to many diverse Indigenous Peoples still connected to these lands. We honor with gratitude Mother Earth and the Indigenous Peoples who have walked with her throughout generations. We will continue to learn how to live in unity with Mother Earth and build strong, mutually beneficial, trusting relationships with Indigenous Peoples of our region.

"Heidinger, Britt" <britt.heidinger@ndsu.edu>

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PurdueU ZoomInfoSession

Are you interested in studying natural resources, evolution, ecology, management, and/or conservation biology in Graduate School? Have questions about choosing a school, an advisor(s), or a degree (e.g., MS vs PhD)? Want to chat with prospective faculty advisors about these and other issues in a very informal Q&A? If so, and if you want to learn more about Forestry & Natural Resources at Purdue University (Indiana, USA), please join us for an upcoming Zoom meeting with a small group of diverse faculty and current FNR grad students. To find out more details and to register, fill the form out at the following link:ï¿½https://bit.ly/MeetFNRGraduate2023 Prof. Andrew DeWoody Depts. of Forestry & Natural Resources and Biological Sciences Purdue University West Lafayette, IN, USA 765-491-6109

"DeWoody, James Andrew" <dewoody@purdue.edu>

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SheffieldU LateralGeneTransferInPlants

The Dunning lab is recruiting a fully funded PhD student to investigate the mechanics of lateral gene transfer in plants.

Lateral gene transfer (LGT) is a widespread phenomenon in grasses that has moved functional genes across the family into domesticated and wild species alike. Key crops such as maize, wheat and rice have dozens of lateral acquired genes in their genomes, but how they got there and the effect they have is unknown. The student will investigate the mechanics of LGT in key crops using a combination of cutting edge experimental, genetic and computational approaches.

The three main fundamental evolutionary questions are:

[1] How is this foreign DNA inserted into the genome of the recipient? Are the genes randomly inserted into the genome, or are there specific target sites that might hint at the mechanisms behind the transfers

[2] How are the transferred genes actually used by the recipient plant? Just because you have the recipe doesn't necessarily mean you know how to express it.

[3] Do LGTs in crops play a role in environmental adaptation or certain agronomic traits?

The outcomes of this project have the potential to alter our understanding of how plants can rapidly adapt to environmental change through trading genetic secrets, with potential impacts on future crop generation and climate change mitigation.

For more information about the research group: https://dunning-lab.sites.sheffield.ac.uk/people For any further questions please contact Dr Luke Dunning l.dunning@sheffield.ac.uk

New Scientist article about some of our recent work: https://institutions.newscientist.com/article/2275559-grasses-pass-genes-from-one-species-to-another-but-we-dont-know-how/ **Funding Notes

This project is part of the BBSRC White Rose Doctoral Training Partnership in Mechanistic Biology. Appointed candidates will be fully- funded for 4 years. The funding includes: - Tax-free annual UKRI stipend (ï¿½17,668 for 2022 starts) - UK tuition fees (ï¿½4,596 for 2022) - Research support and training grant (RSTG)

We aim to support the most outstanding applicants from outside the UK and are able to offer a limited number of bursaries that will enable full studentships to be awarded to international applicants. These full studentships will only be awarded to exceptional quality candidates, due to the competitive nature of this scheme

The BBSRC WR DTP and the University of Sheffield are committed to recruiting future scientists regardless of age, ethnicity, gender, gender identity, disability, sexual orientation or career pathway to date. We understand that commitment and excellence can be shown in many ways and we have built our recruitment process to reflect this. We welcome applicants from all backgrounds, particularly those underrepresented in science, who have curiosity, creativity and a drive to learn new skills.

Note: Relocation costs for international students to the UK (visa, insurance, NHS fees, flights, etc) will be the responsibility of the student

Entry Requirements: Students with, or expecting to gain, at least an upper second class honours degree, or equivalent, are invited to apply. The interdisciplinary nature of this programme means that we welcome applications from students with backgrounds in any biological, chemical, and/or physical science, or students with mathematical backgrounds who are interested in

using their skills in addressing biological questions.

Start Date: 1st October 2023 Shortlisted candidates will be interviewed mid February 2023 Deadline:January 08, 2023

Apply here: https://www.sheffield.ac.uk/postgraduate/phd/apply/applying Dr Luke T. Dunning

NERC Fellow Ecology and Evolutionary Biology

School of Biosciences

University of Sheffield @LukeTDunning https://dunning-lab.group.shef.ac.uk Luke Dunning <l.dunning@sheffield.ac.uk>

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StockholmU OaksInsectsMicrobes

Dear colleagues,

We are looking for a highly motivated PhD-student to join the long-term research on the ecology and evolution of interactions between plants, insects & microbes, with a focus on the food web surrounding oak trees.

For more information see the project description (below) and the following link:

< https://www.su.se/english/about-the-university/work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=19076&rmlang=UK >

and don't hesitate to contact me directly by email, (closing date is November 4)

My best,

Ayco Tack

ayco.tack@su.se

Some more info: Questions that the project aims to answer are: Where do the microorganisms associated with plants come from? Are they inherited from the mother plant through the seeds, or are they acquired from the environment? How will plant-associated microorganisms affect the assembly of the insect community? What are the drivers that structure plant-associated multitrophic food webs, and do the structuring forces differ between microorganisms and macroorganisms?

To answer these questions, we have to link studies on the micro- and macrobiome across spatial and temporal scales. One useful approach is to focus on a diverse community associated with a keystone species. In this project we will use the pedunculate oak Quercus robur.

The PhD-student will be located at DEEP with Ayco Tack as main supervisor, but with complementary support by a group of co-supervisors with other competences.

ayco.tack@gmail.com

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Taipei Taiwan EvolGenomics

*Funded PhD and MSc positions in evolutionary, regulatory and ecological genomics of eukaryotes and viruses *Application open until Jan. 30, 2023 or until positions are filled

PhD and MSc positions with stipends are available in the lab of Evolution and Ecology of Eukaryotic Microbes led by Dr. Chuan Ku at the Institute of Plant and Microbial Biology, Taipei, Taiwan.

The lab focuses on 1. evolutionary history and genetic regulation of microalgae (which account for half of carbon fixation worldwide) and other eukaryotes, 2. genome evolution of giant viruses infecting diverse eukaryotes, and 3. ecology and regulation of microalga-microbe interactions. Successful applicants will be enrolled in graduate programs at top Taiwanese universities the lab is affiliated to and complete required courses taught in English.

Our institute is part of Academia Sinica, the national academy of Taiwan. The working language in our lab and institute is English. Knowledge in Mandarin and other Taiwanese languages is not required, but students are encouraged to take free Mandarin classes on campus if they want. More details about the programs, universities and stipends can be found on our website.

Application requirements: 1. a master/bachelor degree (received by 2023 or earlier) in biology, natural sciences, informatics or related fields 2. English proficiency for reading, writing, and oral communication 3. strong motivation to work in a research environment 4. ability to work both independently and as part of a team 5. any of these would be a plus: *programming skills *knowledge in evolutionary biology, genomics, ecology, microbiology,

molecular biology or cell biology *research experience in related fields

To apply, please send an email with the subject IPMB_application_PhD(orMaster)_YourName directly to Chuan Ku, briefly describing your research interests, experience, skills, future plan, and contact details of referees (at least two for PhD applicants). A single PDF should be attached that includes your CV, transcripts, and, if available, degree certificates, thesis title and abstract, and proofs of relevant skills and experience. Shortlisted candidates will be invited to an interview.

Inquiries about other types of positions (postdocs and research associates) are also welcome.

Dr. Chuan Ku (assistant professor) email: chuanku@gate.sinica.edu.tw Lab website: https://chuanku-lab.github.io/kulab/ Institute website: https://ipmb.sinica.edu.tw/en Chuan Ku <chuanku@gate.sinica.edu.tw>

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Texam AMU SpeciationBehaviorGenomics

The Delmore Lab at the University of Texas A&M is looking for a PhD student to join our group in Sept 2023.

We study speciation using hybrid zones and work at both the micro and macroevolutionary scale.

One of our research stream focuses on behaviour - how variation in behavioural traits contributes to speciation and the genetic basis of these traits. Two of the behaviors we study are seasonal migration and courtship behavior in thrushes and hummingbirds, respectively.

Another research stream takes a more comparative approach, focusing on processes that generate genome-wide variation in estimates of differentiation during speciation. We use both genomic data and computer simulations to address this question.

Students can pursue degrees in Biology (https://www.bio.tamu.edu/), EEB (https://www.eeb.tamu.edu) or Genetics (https://www.genetics.tamu.edu). All of these programs have collaborative, enthusiastic and supportive environment. They include students from many different international backgrounds and you will be able to develop knowledge in evolution and substantial genomic and computational skills while you're here.

Texas A&M is a Tier 1 institution with an amazing number of facilities to support research. College Station itself is a friendly university town located between Austin and Houston. It is the perfect venue for getting work done while having access to vibrant city centers full of entertainment and culture.

You can find out more about our lab at delmorelab.com. If you are interested please email a CV (including names and contact details of two-three references) and a one-page cover letter stating your motivations to Kira Delmore (kdelmore@bio.tamu.edu) with the subject line "PhD application".

Kira Delmore | Assistant Professor Biology, College of Science | Texas A&M University 3528 TAMU | College Station, TX 77843 1 (979) 900-2129 | kdelmore@bio.tamu.edu delmorelab.com

* My working hours may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule. *

"Delmore, Kira" <kdelmore@bio.tamu.edu>

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TulaneU EvolutionaryGenomics

*Graduate position: Tulane University Evolutionary Genomics *

The Chaturvedi Lab at Tulane University, New Orleans, LA is seeking graduate students to start in Fall 2023.

The lab is seeking students with an interest in evolutionary genomics, plant-insect interactions, climate adaptation, and molecular evolution. Students will have the opportunity to participate research which can be related to evolutionary genomics or plant-insect interactions, co-evolution, spatial evolution and climate adaptation. Students will be expected to develop their own dissertation project that reflects their own interests under these themes. All these projects are highly integrative and involve understanding of various topics in evolutionary biology, population genetics, inter-specific interactions, chemical ecology, and global climate change biology. Through this position, students will have the opportunity to conduct field work, develop skills in high-throughput genomic and transcriptomic sequencing, advanced statistical analysis, computational biology,

and bioinformatics. Study systems include Lycaeides and Battus butterflies and their host plants but this is not restrictive and students will be encouraged to develop their own projects in study systems of their interest.

Experience in field work, data analysis, molecular biology skills (DNA-based lab work), and quantitative analysis are preferred but not required. Students will have the opportunity to develop these skills as required by the proposed Ph.D. projects.

Students will be supported through a mix of graduate research assistantships and teaching assistantships. Students are also welcome to apply for graduate fellowships through NSF Graduate Research Fellowships.

Tulane University offers a vibrant scientific community with a strong PhD program in Ecology and Evolutionary Biology. New Orleans is a vibrant town with an amazing cultural history and a vibrant atmosphere for graduate school experiences.

The deadline for applications is December 1st 2022. The successful applicant is

expected to start in Fall 2023 (later start date negotiable). To apply please send a CV, contact details for three references, and a cover letter stating qualifications, previous work and motivation to Dr. Samridhi Chaturvedi at samridhi.chaturvedi@gmail.com where you can also send any queries.

Samridhi Chaturvedi

(https://samridhichaturvedi.weebly.com/)

– Samridhi Chaturvedi Postdoctoral Fellow Whiteman Lab Department of Integrative Biology University of California, Berkeley

Samridhi Chaturvedi <samridhi.chaturvedi@gmail.com>

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UAarhus ArthropodPOpulationGenetics

The Centre for EcoGenetics is inviting applications for a PhD position at Aarhus University, Denmark

Title: Landscape and cultivation effects on arthropod population genetic diversity

The position is part of a Novo Nordisk funded Challenge center on biodiversity studies. Please see more information on the call here: https://-phd.nat.au.dk/for-applicants/open-calls/november-2022/landscape-and-cultivation-effects-on-arthropod-population-genetic-diversity Applications are invited for a PhD fellowship/scholarship at Graduate School of Natural Sciences, Aarhus University, Denmark, within the Biology programme. The position is availablefrom February 2023 or later. Applications are accepted from college students and graduates with an academic record corresponding to a Bachelor's or Master's degree.

Application deadline is 1 November 2022, with a starting date of 1 February 2023 or later.

Trine Bilde Professorof Evolutionary Biology Section for Genetics, Ecology & Evolution Novo Nordisk Challenge Centre for Ecological Genetics Department of Biology, Aarhus University Ny Munkegade 116, Building 1540, 2nd- office 221 DK - 8000 Aarhus C Mobile: +45 60202702 E-mail: trine.bilde@bio.au.dk Web: http://-ecogenetics.au.dk/ Trine Bilde <trine.bilde@bio.au.dk>

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UAlmeria Spain PlantEvolutionaryGenomics

Theme:

SEARCH FOR CANDIDATES TO APPLY FOR A PREDOCTORAL SCHOLARSHIP IN PLANT EVOLUTIONARY GENOMICS AT THE UNIVERSITY OF ALMERï¿½A (UAL, ALMERï¿½A, SPAIN).

Job description:

The research group of Plant Evolutionary Genomics at UAL (SICA id BIO359) is currently looking for candidates to apply for a PhD scholarship in the FPU call from the Spanish Ministry of Universities, the FPI call from the Spanish Ministry of Science and Innovation or any of the different competitive calls that are expected to open application deadlines starting in November 2022 (e.g., Salvador de Mariaga, La Caixa, Youth Guarantee). The doctoral thesis will be performed at the Department of Biology and Geology at UAL within the framework of a research project funded by the Spanish Ministry of Science and Innovation. The main purpose of the project is to study the origin and evolution of new genes and novel gene functions in plants. The project is organized

around two major research lines:

i) Investigating the role of gene and genome duplication in promoting evolutionary innovation and adaptation in plants using deep learning- based probabilistic approaches.

ii) Unravelling the impact of organellar DNA on the evolution of plant nuclear genome structure and function.

This is an interdisciplinary research project that integrates bioinformatics and evolutionary genomics with inferential statistics and machine learning. The project anticipates collaborations and stays with researchers from UAL, as well as national and international, in mathematics, evolutionary genomics, molecular biology, genetics or computer science.

Requirements:

Candidates must be eligible to apply for an official PhD program at a Spanish university next academic year. I am looking for a highly motivated candidate with strong leadership, initiative, ability to work in a team and demonstrable and genuine interest in evolutionary biology. Candidates must have academic training in bioinformatics, biology, or biotechnology preferably, although candidates with a background in mathematics, physics, chemistry, computer science or electronic engineering will also be considered. The successful candidate is expected to contribute to the design of software and/or computational pipelines, the analysis of the results and the writing of conference presentations and research articles. The candidate should ideally have previous experience in omics-data analysis, knowledge of a programming language, preferably LINUX Shell, PERL, R and / or Python, and excellent oral and written communication skills in both Spanish and English. Teaching in the degree and Master of Biotechnology at UAL as well as supervision of undergraduate students is also expected.

Deadline:

Please send your application documents, including complete CV, academic record, and motivation letter to Prof Dr Lorenzo Carretero-Paulet (lpaulet@ual.es). The deadline is open until a suitable candidate for the successive calls is found.

Dr Lorenzo Carretero Paulet

Assistant Professor of Genetics

Department of Biology and Geology University of Almerï¿½a (UAL)

Ctra. Sacramento s/n

Escuela Superior de Ingenierï¿½a (Despacho 2.32) 04120Almerï¿½a Spain

Phone: +34 950015565 Fax: +34 950015476

E-mail:lpaulet@ual.es

ResearchGate Google Scholar ORCID

Scopus Researcher Id: Z-2744-2019

LORENZO CARRETERO PAULET <lpaulet@ual.es>

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UAuckland NZ WineMicroEvol

PhD Opportunity at the University of Auckland, New Zealand in collaboration with Lincoln University, Christchurch and Bragato Research Institute, Blenheim.

Microbial community and vine responses to climate change and potential consequences for NZ wine styles

We are seeking an enthusiastic and highly motivated PhD student with interests in both the fundamental and applied aspects of microbial community ecology and population biology to join our group. Funding has been obtained to support a PhD stipend and fees to investigate the impact of increasing temperatures as a result of climate change on microbial communities associated with vines and wines and potential implications for regional wine styles. The student will be based at the School of Biological Sciences at the University of Auckland (under the supervision of Dr Sarah Knight, co-supervisor AP Gavin Lear) and work in collaboration with Lincoln University in Christchurch (co-supervisor Dr Amber Parker) and the New Zealand Winegrowers Bragato Research Institute in Blenheim.

Microbial communities play a core role in the quality of agricultural products with measurable effects on nutrient availability, and plant disease resilience. The wine industry is particularly dependent on the role microbial communities play during fermentation, transforming grapes to wine, and how they contribute to the quality of wine produced. Previous research has shown microbial communities correlate with wine chemical properties. In combination with microbial community differentiation by geographic region there is now compelling evidence of a microbial aspect to wine regionality, or terroir. There have been a few studies looking into the direct or indirect impact of temperature on microbial community composition for grape and wine production with little knowledge on how climate change will affect microbial

communities of significance for wine style. We predict that changes in temperature will in turn change the composition of microbial communities in New Zealand's vineyards and are interested in the interaction with vine physiology and the effects on wine characteristics. By understanding changes in microbial communities and plant phenotypes in response to climate change, the New Zealand Wine Industry will be better prepared to implement strategies to adapt to potential unwanted changes to their regional wine styles because of it.

A combination of field and laboratory-based experiments will be devised to evaluate aspects of microbial community ecology and population biology to understand how temperature shapes microbial communities associated with vines and winemaking, and how these differences might affect wine chemical composition. Such a project will produce quality academic outputs and valuable information for growers and winemakers regarding the potential effects of climate change on vineyard ecosystems and the quality of the wine deriving from these changes. The student will be expected to liaise with industry contacts and design and implement vineyard trials to test robust experimental hypotheses. Microbiology and molecular biology techniques, including next-generation DNA sequencing will be used to analyse microbial communities and populations. Hypotheses of interest will be tested using community ecology and population genetic analyses. The student will also be expected to measure and evaluate changes in grapevine physiology in response to modified temperature conditions, and investigate potential relationships to changes in microbial communities. A strong background in ecology and molecular genetic approaches is recommended, along with some experience in microbiology and a basic knowledge of plant biology. The student needs to be prepared to spend time in the field and in the laboratory.

This project includes the cost of fees and a tax-free stipend fees for three years and while not necessary, applicants eligible for a prestigious https://www.auckland.ac.nz/en/study/scholarships-and-awards/scholarship-types/postgraduate-scholarships/guaranteed-scholarships.html are encouraged to apply. Acceptance onto a doctoral program will be determined by University admissions, and require the applicant meets the University entry levels (see https://www.auckland.ac.nz/en/study/applications-and-admissions/how-to-apply/postgraduate-admission/doctoral-applications.html). Overseas applicants are welcome and the New Zealand border is now open (see https://www.auckland.ac.nz/en/study/international-students/new-zealand-border-opening.html for details).

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UBasel Switzerland GullSpeciationGenomics

4-year PhD position "Unraveling the genomic origin of species in the large white-headed gull radiation"

A PhD position for four years (100%) is available at the Natural History Museum Basel and the Department of Environmental Science, University of Basel, Switzerland.

Our project investigates the genomic basis of speciation in one of the fastest diversifying bird lineages, the Holarctic radiation of large white-headed gulls (Larus spp.) that produced 16 species and 35 subspecies in less than a million years. The PhD student will have the opportunity to investigate the genomic architecture of reproductive isolation across the speciation continuum and to reconstruct how the entire radiation of large white-headed gulls unfolded. We will investigate the speciation continuum using natural variation in the speciation process (Stankowski & Ravinet 2021) present in this fantastic bird system, by comparing whole genome population genomic data of several species with varying degrees of divergence, geographic overlap and reproductive isolation, including transects across two independent hybrid zones (Gay et al. 2009). We will further use whole genomes of all known taxa to reconstruct the origin, route, timing and the role of gene flow in this rapid bird radiation (Marques et al. 2019a, b). The position will involve field, lab and museum-based work and genomic data analysis using population genomic and phylogenomic approaches. A Postdoc in our team will simultaneously generate state-of-the-art genomic resources in collaboration with the Wellcome Sanger Institute, Cambridge, UK.

This project is a collaboration between David Marques (principal investigator, Natural History Museum Basel, Switzerland), Walter Salzburger (University of Basel, Switzerland), Joana Meier (Wellcome Sanger Institute, UK), Pierre-André Crochet (CNRS Montpellier, France), Manuel Schweizer (Natural History Museum Bern, Switzerland) and Magdalena Zagalska-Neubauer (University of WrocÂ³aw, Poland). The PhD position will be supervised by David Marques at the Natural History Museum Basel and associated with the group of

Walter Salzburger at the University of Basel, Switzerland.

I am looking for a highly motivated person eager to address big questions in evolutionary biology with whole genome data. In particular, I seek candidates with a strong foundation in evolutionary biology and interest in speciation, genomics and evolution in general, preferably (but not necessarily) with some experience in programming and genomic data analysis. Candidates for this position are required to hold a Masters degree in Biology or Bioinformatics from a higher education institution recognized by the University of Basel. In my mission to build a diverse, inclusive and highly collaborative lab, I am looking for a kind person that is both eager to work independently and to actively contribute to an interactive and supportive team and therein to a positive lab environment.

Both the Natural History Museum and the University of Basel harbor a friendly and welcoming community of MSc, PhD and Postdoc researchers and are located within 10 minutes walking distance from each other in the heart of Basel city. Basel is the third largest city of Switzerland, bordering France and Germany, is rich in historical buildings and with lively traditions, has a cosmopolitan ambience and a world-renowned art and museum scene. Strong public transport in the city and Switzerland allowing for easy train access to the Jura mountains and the Swiss alps add to the experience, letting Basel rank among the global top 10 cities for quality of living.

The position is available from between January and April 2023, the application deadline is November 30, 2022. The PhD salary will be according to Swiss National Science Foundation standards (approx. CHF 47,000-50,000 annually before taxes for four years of 100% employment).

Please send an application letter (outlining your motivation and what your skills will add to this project), CV and contact information of two references to David Marques (david.marques@bs.ch) until the deadline on November 30, 2022. For any inquiries regarding the position, please contact David Marques (david.marques@bs.ch).

Literature Gay, L., G. Neubauer, M. Zagalska-Neubauer, J.-M. Pons, D. A. Bell & P.-A. Crochet (2009): Speciation with gene flow in the large white-headed gulls: does selection counterbalance introgression? Heredity 102: 133-146.

Marques, D. A., K. Lucek, V. C. Sousa, L. Excoffier & O. Seehausen (2019a): Admixture between old lineages facilitated contemporary ecological speciation in Lake Constance stickleback. Nature Communications 10: 4240.

Marques, D. A., J. I. Meier & O. Seehausen (2019b): A combinatorial view on speciation and adaptive radiation. Trends in Ecology & Evolution 34: 531-544. Stankowski, S. & M. Ravinet (2021) Defining the speciation continuum. Evolution 75: 1256-1273.

David Marques, PhD Natural History Museum Basel

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UBath AppliedEvolutionaryGenetics

Fully funded PhD position open to students worldwide

Evolutionary genetics of adaptation to pesticide mixtures

Joint funding from Syngenta and the Biotechnology and Biological Sciences Research Council (BBSRC) for four years.

https://www.findaphd.com/phds/project/swbio-dtp-phd-project-evolutionary-genetics-of-adaptation-to-pesticide-mixtures/?p148739 Supervisory Team: Lead supervisor: Prof Jason Wolf, University of Bath, Department of Life Sciences, Milner Centre for Evolution (email: j.b.wolf@bath.ac.uk) Co-supervisors: Dr Nicholas Priest (University of Bath) and Dr Philip Madgwick (Syngenta, subject to contract)

The Project:

The broad aim of this project is to understand evolutionary adaptation to multiple selective agents, towards an ultimate goal of improving methods for mitigating evolution of resistance to multiple pesticides. By focusing on pesticides as a selective agent, this project not only addresses fundamental evolutionary questions but also a problem that has critical implications in areas such as sustainable agriculture and eradicating diseases. The project will take a broadly integrative approach, combing modelling with genomics and experimental evolution.

On the theory side, a modelling framework will be developed for predicting how anthropogenic selection drives

the microevolutionary changes that we can observe in real time. On the experimental side, the genetics and evolution of insecticide resistance will be studied by applying methods from genomics and experimental evolution using the fly Drosophila melanogaster. Results from experimental evolution will feed back on the models to evaluate their predictive power and inform their further refinement.

The student will benefit from joint supervision by academics at the University of Bath and researchers at Syngenta (subject to contract), providing a strong academic foundation to the science and clear applied goals to maximise the impact of the work. By simultaneously making advances through theory, experimentation, and data analysis, this project has multiple pathways to achievement for an ambitious student. The student will be supported by a comprehensive training plan that integrates the necessary computational, mathematical, and empirical skills, preparing students from a wide range of backgrounds for successful completion of this project.

Jason Wolf <jbw22@bath.ac.uk>

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UBath CentipedeEvolution

A PhD project on the evolution of centipede venoms is being advertised at the University of Bath (UK) as part of the NERC-funded

Great Western Four+ Doctoral Training Partnership (GW4+ DTP). This project is in competition for funding, and when successful will start in October 2023.

The project aims to shed light on the contributions made by horizontal gene transfer and microbes to the evolution of venom composition in centipedes. Details about the project and how apply are given here:https://-/bit.ly/3MOXf1B For informal enquiries please send an email to Dr Stefan Bagby atbsssb@bath.ac.uk

NERC GW4+ DTP PhD project: The chemical weapons of centipedes: using nanopore sequencing to reveal the unique roles of horizontal gene transfer and microbial symbionts at University of Bath on FindAPhD.com

PhD Project - NERC GW4+ DTP PhD project: The chemical weapons of centipedes: using nanopore sequencing to reveal the unique roles of horizontal gene transfer and microbial symbionts at University of Bath, listed on FindAPhD.com

Ronald Jenner <r.jenner@nhm.ac.uk>

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UBuffalo Three sedaDNA Paleogenomics

Cohort hire (Multiple Postdoc and PhD positions)

in Biological and Earth Sciences

Positions: 2 Postdocs, 3 PhD students Location: University at Buffalo, Buffalo, NY Start date: Spring 2023 (Biology postdoc), Fall 2023 (Earth Science postdoc, PhD students)

We are inviting applications for two Postdoctoral Researcher and three PhD student positions as part of a highly interdisciplinary and collaborative project funded by a new 4-year National Science Foundation, Understanding the Rules of Life - Emergent Networks award. The project will study Late Pleistocene-Holocene climate and ecological change during rapid warming events in Southeast Alaska. Students and postdocs will be joining a team of two biology (Charlotte Lindqvist and Corey Krabbenhoft) and two Earth Science (Jason Briner and Elizabeth Thomas) professors at the University at Buffalo, New York, with cross-disciplinary expertise in evolutionary biology, paleogenomics, ecology, geology, and paleoclimatology.

The abstract of the award ("URoL:EN: Integrating paleogenomics, ecology, and geology to predict organism-environment coupled evolution during rapid warming and ice sheet retreat") can be found here: https://-/www.nsf.gov/awardsearch/showAward?AWD_ID=-2221988 . See also here for attention our award has gained: https://www.buffalo.edu/ubnow/stories/-2022/09/climate-change-alaska.html and https://-www.schumer.senate.gov/newsroom/press-releases/-schumer-gillibrand-announce-nearly-3-million-in-national-science-foundation-funding-for-the-university-at-buffalo-to-study-the-impacts-of-climate-change
Position Descriptions: The two postdoctoral associates will work in one of two areas: (1) sedimentary ancient DNA (sedaDNA) or (2) geochemical and stable isotope proxies in lake sediments and paleoclimate reconstruc-

tion, and both will be involved with age-depth modeling from lake sediment cores collected in Southeast Alaska. Experience with pollen analysis is a plus. The postdocs will also take part in coordination and mentoring students, research and outreach activities, and course planning. The three PhD students will conduct research in aspects of either (1) sedimentary ancient DNA, (2) paleoclimate reconstruction using lipid biomarkers and compound-specific stable isotopes or (3) cosmogenic nuclide exposure dating and reconstruction of sea level history, respectively. PhD students will be trained as a cohort, and all participants will be involved with extensive lab work, field work, and outreach in Southeast Alaska and cross-disciplinary project activities through project team meetings, journal seminars, and workshops.

Qualifications: For the postdoc positions, required qualifications are a Ph.D. in either evolutionary biology, Earth science, or closely related fields, depending on which of the two positions is being applied for. Candidates must have excellent English writing and verbal communication skills, as well as an established record of productivity (i.e., producing peer-reviewed publications) in areas relevant to the specific research. We are particularly looking for applicants with a relevant research background in one of the two fields: sedimentary ancient DNA/paleogenomics or geochemistry, and with an interest in working in an interdisciplinary and collaborative research environment. Proficiency in or a desire and willingness to learn scientific programming, bioinformatics, and/or statistics is required. Students interested in applying for any of the PhD positions must hold a Bachelor and/or Master's degree in either biological or Earth sciences prior to the start date in Fall 2023.

How to Apply: Postdocs: Interested applicants should send a CV and a cover letter, including contact information for 2-3 references, to the email addresses below. We encourage applications from underrepresented groups and women. Review of applications will begin immediately and remain open until December 1st, 2022, applications will be accepted until the positions have been filled. The Biology Postdoctoral Fellow is anticipated to start in February, 2023 and the Earth Science Postdoctoral Fellow will start summer or fall 2023. Both positions will continue for 2 years, contingent on satisfactory progress in year 1.

PhD students: Applications for admission to our respective graduate schools for Fall 2023 are due Jan 4th 2022 to biology and 15 December 2022 to Earth Science for full priority consideration. However, applicants are strongly encouraged to reach out to the relevant PI at the below address/es to discuss

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UCincinnati SexualSelection ParasiteHost

Graduate Positions in Sexual Selection/Parasite-Host Biology

The Polak Lab at the University of Cincinnati, Ohio, USA, is recruiting graduate students to work in the areas of sexual selection and host-parasite evolutionary ecology, and to join a growing research team pursuing these themes. The questions students would pursue are flexible within the broader scope of these disciplines. Our main systems involve ectoparasitic mites and parasitoids of insect hosts. The mites are sexually transmissible and there is exciting potential to explore both pre- and post-copulatory sexual selection mediated by these parasites; both "good genes" and direct fitness models apply. Students will be able to develop skills that are strongly multi-disciplinary, involving study of natural host-parasite systems, behavioral ecology, insect mating systems, reproductive physiology, quantitative genetics, bioinformatics and functional genomics. Successful applicants will be highly motivated to pursue graduate research in the above theoretical areas, and eager to develop their creativity and science competency. Application deadline is January 1, 2023.

Visit https://polaklab.org/ to learn more about the Polak lab, and https://www.artsci.uc.edu/departments/biology.html about the Department of Biological Sciences at the University of Cincinnati.

Interested parties are encouraged to send an informal inquiry to Dr. Michal Polak: polakm@ucmail.uc.edu

Michal Polak, PhD Professor & Graduate Fellow Interim Chair of Graduate Admissions Department of Biological Sciences University of Cincinnati Cincinnati, OH 45221-0006 USA Tel: +1 (513) 556-9736 Web: https://polaklab.org "Polak, Michal (polakm)" <polakm@ucmail.uc.edu>

UDuesseldorf HordeumAdaptation

For our new Collaborative Research Center on “Plant Ecological Genetics” the Institute for Plant Genetics at the Faculty of Mathematics and Natural Sciences of Heinrich Heine University (HHU) Dï¿½sseldorf invites applications for a

PhD Position (w/m/d) (65 %, EG 13 TV-L): Adaptation in ecologically diverse Hordeum species: a comparative intra- and interspecies approach to be filled as soon as possible for four years

SFB/TRR341 “Plant Ecological Genetics” The Collaborative Research Center TRR341 “Plant Ecological Genetics” (https://trr341.uni-koeln.de/) is funded by the German Research Foundation (DFG) at the Universities of Cologne, Dï¿½sseldorf, Bochum, Marburg and the Max Planck Institute for Plant Breeding Research. In a joint and interdisciplinary approach, combining Plant Genetics/Genomics and Ecology, we are investigating the genetic underpinnings of plant responses and adaptation to global environmental change. Together, our aim is to provide new molecular and genetic data and tools to better understand the genetic and genomic basis of plant adaptation.

Within the TRR341 we are looking for a PhD candidate to work on the project “Adaptation in ecologically diverse Hordeum species: a comparative intra- and interspecies approach”, a joint project between the von Korff lab (https://www.pflanzengenetik.hhu.de/en/) and the Bucharova lab (https://www.uni-marburg.de/en/fb17/-disciplines/conservation/conservation-biology-group).

What are your tasks: - Identify intra- and inter-specific trait and genetic variation underlying the ecological diversification, local adaptation, and differences in geographic range of wild Hordeum species - Support in situ sampling and scoring of wild Hordeum populations in Germany - Conduct common garden experiments to score phenotypic differences between different Hordeum populations under water and nutrient limitations. - Apply statistical and computational tools for the analysis of trait, environmental and high-density genetic marker data (NGS-data) - Present and publish research results in conferences and scientific journals

What do we expect - MSc degree in the field of plant biology, evolutionary or population genetics, ecological genetics, quantitative biology, plant breeding or a comparable discipline - Interest in plant genetic ecology, quantitative and evolutionary biology methods and concepts - Experience in the use of statistical methods and programming languages (e.g. R, Java, Python) is desirable - Good oral and written communication skills in English

We offer you - A unique and interdisciplinary research network in the field of Plant Ecological Genetics (TRR 341) that bundles the expertise of excellent scientists from five different research institutions. - comprehensive training program with targeted scientific education in the field of Plant Ecological Genetics as well as complementary training supporting your personal and career development. - Family-friendly working environment

If you have further questions on the project or position, please contact Prof. Maria von Korff Schmising (maria.korff.schmising@hhu.de). Qualified candidates should send their application (cover letter, CV, publication list, contact info of two referees, Bachelor and MSc certificates) by e-mail (one single pdf-file) to maria.korff.schmising@hhu.de. Closing date is 31.10.22

“Maria.Korff.Schmising@uni-duesseldorf.de”

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UEdinburgh FrogSpeciation

Inferring the role of sexual and natural selection in speciation through genomics of colouration in strawberry poison frogs

Funding Status: Funding is in competition with other projects and students through Doctoral Training Programs (NERC and BBSRC DTPs)

Project Description Animal populations that use different adaptive strategies are an ideal study system to uncover processes involved in early stages of speciation. The aim of this study is to understand the interplay of natural and sexual selection in generating biological diversity by using strawberry poison frogs as a study system. Theses amphibians are widely distributed in the Bocas del Toro archipelago in Panama and show a remarkable colour polymorphism, with up to 18 different colour morphs occurring in sympatry and allopatry. To avoid predation, the frogs adapt one of two strategies: aposematism (conspicuous warning colouration) or crypsis (inconspicuous colouration that blends in with surroundings). Because strawberry poison frog morphs

mate assortatively, differences in coloration driven by natural selection (the predator avoidance strategy) may interact with sexual selection (preference for morphs of the same colour as oneself) and promote population differentiation. Thus, this study system offers a unique opportunity to investigate evolutionary forces that are at play in the early stages of speciation.

This project will make use of genomic and transcriptomic data to study demography, population differentiation, and the genomic basis of colouration in multiple cryptic and aposematic strawberry poison frog populations. Research questions include: - What is the genomic basis of crypsis and aposematism? Is colouration determined by a few loci or does it require changes in many genes? The genomics of colouration will determine the complexity of switching between predator avoidance strategies. - What are the underlying changes in gene expression involved in generating colour polymorphism within the different strategies? How is the colour perceived and processed? - Does population history/demography play a role in the predator avoidance strategy? Previous studies suggest that the variation in colouration among populations have occurred through repeated loss of aposematism. Could this loss be associated with population bottlenecks? Drift (particularly if colouration is based on few loci) or negative selection in small populations where educating predators is not successful, could be the driving forces.

Methodology The project relies on a comprehensive transcriptomic dataset of several frog tissues and shotgun DNA data generated from muscle. This is primarily a computational project that will use publicly available and newly generated genomic resources to study population differentiation, population history, and gene expression. It will be conducted in collaboration with researchers in the UK, Sweden, Germany and the United States of America. The project will be jointly supervised by Katerina Guschanski (University of Edinburgh), Anna Qvarnström (Uppsala University), Carolina Segami (Duke University) and Simon Martin (University of Edinburgh).

Candidate requirements To be eligible for a PhD-student position the applicant should have at least an upper 2.1 degree in evolutionary biology, bioinformatics, or a related field. In the British system, candidates who have successfully finished their undergraduate degree (Honours) are eligible to apply. The technical skills of the candidates will be evaluated based on the experience with large-scale sequencing analyses and bioinformatics proficiency. Experience with transcriptomics will be an advantage. The ideal candidate will have a strong interest and documented knowledge in evolutionary biology, with a drive to understand processes involved in speciation. Perseverance and high intrinsic motivation are necessary to successfully complete a PhD project and overcome the unavoidable obstacles with data and analyses. You will be highly reliable, driven and well-organised, curious and willing to think outside the box, with the ability to quickly acquire new skills, and a person who enjoys working both independently and as part of a team.

The position will begin Fall 2023. Interested students should send a current CV and a brief letter of interest to Dr. Katerina Guschanski (Katerina.Guschanski@ed.ac.uk) and get in contact for more details. More information about the research group https://www.ieg.uu.se/-animal-ecology/Research+groups/guschanski-lab https://www.research.ed.ac.uk/en/persons/katerina-guschanski Further details and application instructions: (EASTBIO DTP, deadline is December 5th 2022)

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UFlorida EvolutionaryPhysiology

Dan Hahn's Lab is looking to recruit a new PhD student to work in the areas of evolution of phenotypic plasticity, mechanisms of plasticity, and climate change in fall 2023. The student will be encouraged to work broadly in one of four overlapping areas: 1) testing predictions from theoretical evolutionary ecology models about the roles of spatial and temporal variation in the evolution of seasonal thermal plasticity and/or dormancy phenotypes using insects as models, 2) identifying the underlying genetic and physiological architectures of plasticity in thermal and dormancy traits in insects, 3) testing hypotheses about how insects may use chromatin modification to mediate plasticity responses both within and between generations, and 4) testing the extent to which plastic responses can induce greater male competitiveness in sexual selection.

Some recent papers allied with these topics include:

López-Martínez. G., Carpenter, J.L., Hight, S.P., and Hahn, D.A. 2021. Low-oxygen hormetic conditioning improves field performance of sterile insects by inducing beneficial plasticity. Evolutionary Applications. 14:

566-576.

Olivera, B.F., Yogo, W.I.G., Hahn, D.A., Yongxing, J, and Scheffers, B.R. 2021. Community-wide seasonal shifts in thermal tolerances of mosquitoes. Ecology. e03368.

Chen, C., R. Mahar, M.E. Merritt, D.L. Denlinger, and D.A. Hahn. 2021. ROS and hypoxia signaling regulate periodic metabolic arousal during insect dormancy to coordinate glucose, amino acid, and lipid metabolism. PNAS. 118: e2017603118

Short, C.A., J.D. Hatle, and D.A. Hahn. 2020. Protein stores regulate when reproductive displays begin in the male Caribbean fruit fly. Frontiers in Physiology. 11:991.

Dowle, E.J., T.H.Q. Powell, M.M. Doellman, P.J. Meyers, M.B. Calvert, K.O. Walden, H.M. Robertson, S.H. Berlocher, J.L. Feder, D.A. Hahn, and G.J. Ragland. 2020. Genome-wide variation and transcriptional changes in diverse developmental processes underlie the rapid evolution of seasonal adaptation. PNAS 117: 23960-23969.

Teets NM , Dias VS , Pierce BK , Schetelig MF, Handler AM,Hahn DA. 2019. Overexpression of an antioxidant enzyme improves male mating performance after stress in a lek-mating fruit fly. Proceedings of the Royal Society of London B. 286:20190531.

Gerken, A.R., Eller, O.C., Hahn, D.A., and Morgan T.J. 2015. Constraints, independence, and evolution of thermal plasticity; probing the genetic architecture of long and short-term thermal acclimation. PNAS 112: 4399-4404.

Williams, C.M., M. Watanabe, M. Guarracino, M.B. Ferraro, A.S. Edison, T.J. Morgan, A. Boroujerdi, and D.A. Hahn. 2014. Cold adaptation shapes the robustness of metabolic networks in Drosophila melanogaster. Evolution. 68:3505-3523.

Our lab in Department of Entomology & Nematology at University of Florida offers a dynamic and flexible PhD experience with strong collaborative ties within the department and with other units from Biology, to Wildlife Ecology & Conservation, to the College of Medicine. Our department offers a series of very nice PhD fellowships offering competitive stipends and minimal teaching, but applicants must have completed or are in process of completing a MS degree to be competitive for these fellowships. MS programs can be domestic or international. Gainesville, FL is a solid college town of ˜100,000 people with many opportunities for cultural experiences, developing community, social justice activities, and outdoor recreation.

If you are interested, reach out to Dan Hahn at dahahn@ufl.edu in October or early November so we can get the ball rolling well before applications are due in the first week of January (the sooner we start the process the better).

Dan Hahn https://entnemdept.ufl.edu/people-directory/daniel-hahn/ "Hahn,Daniel Allen" <dahahn@ufl.edu>

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UFlorida GeneticsGenomics

The faculty of the Genetics Institute at the University of Florida (UF) are recruiting students to the Genetics & Genomics (G&G) Graduate Program to start in Fall 2023.

We seek applicants who are highly motivated and enthusiastic, with demonstrated research experience, and are keenly interested in cutting-edge fields in genetics and genomics, such as genomics/proteomics/metabolomics/metagenomics/transcriptomics/phen precision medicine, gene therapy, bioinformatics, computational biology, genomic technology, and artificial intelligence/machine learning (to name just a few!). See our website < http://ufgi.ufl.edu/grad-program/ > for more information.

Graduate students in our program are guaranteed financial support through RA and TA appointments, including tuition and health insurance. Students can choose from more than 200 faculty members in six different colleges to work with - check out our awesome faculty here < http://ufgi.ufl.edu/ufgi-faculty-directory/ >.

Applications are due on December 1st. Potential applicants should contact one or more of our faculty before the deadline to discuss their research interests. Information on how to apply to our graduate program can be found here < http://ufgi.ufl.edu/grad-program/-admissions/ >.

We are having a virtual information session on Monday, November 7th at 10-11:30am EST for potential students to learn more about the program, as well as meet some of our current students. If you are interested in attending, please register at this link. < https://-ufl.qualtrics.com/jfe/form/SV_3WQpbXy9laKNtki >

What do UF Genetics faculty do? See feature articles

form a recent issue of UF's research magazine, Explore:

* UF Genetics Institute new director, Dr. Tom Burris < https://explore.research.ufl.edu/innovation-is-in-his-dna.html >

* Father's illness drives Dr. Eric Wang < https://-explore.research.ufl.edu/this-geneticists-goal-cure-the-disease-that-runs-in-his-family.html > to find a cure for myotonic dystrophy

* G&G graduate student Shandra Trantham < https:/-/explore.research.ufl.edu/no-time-to-be-patient.html >, researcher and patient, searches for cures for neurodegenerative diseases

* Biomedical engineering faculty Drs. Josephine Allen and Erika Moore < https://explore.research.ufl.edu/-revealing-the-ancestry-blind-spot.html > collaborate with Anthropology faculty Dr. Connie Mulligan < https://explore.research.ufl.edu/revealing-the-ancestry-blind-spot.html > to investigate how ancestry can shape health disparities

* G&G alum and UF faculty Dr. Marcio Resende < https://explore.research.ufl.edu/heres-how-ai-could-bring-better-fruit-to-your-table.html > uses AI to make food healthier and tastier

* Microbial ecologist Dr. Julie Meyer < https://-explore.research.ufl.edu/reef-relief.html > is developing probiotics to save coral reefs

UF has the following funding opportunities to enhance diversity that you may want to consider:

* McKnight Doctoral Fellowship < http://-graduateschool.ufl.edu/prospective-students/funding/-fellowships/mcknight-doctoral-fellowship/ > with funds for stipend, tuition, and fees

* Board of Education Summer Fellowship < http://-graduateschool.ufl.edu/about-us/offices/dgsa/ogdi/-ogdi-programs/board-of-education-boe-summer-fellowship/ > that provides funds and networking opportunities for new graduate students

The University of Florida is one of the top 5 public universities in the country with a university-wide commitment to genetic research. The University of Florida Genetics Institute (www.ufgi.ufl.edu) is an inter-college institute with a dedicated research building intended to enhance opportunities for collaboration. Gainesville is located in north

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UGoettingen PlantBreedingMethods

The Division of Plant Breeding Methodology at the University of Gï¿½ttingen has an opening for a PhD student. Applicants should be comfortable with quantitative genetic techniques such as genomic prediction and have a strong background in statistics, mathematics, or computer programming. Experience working with plant or animal breeding populations is required. Experience with maize is a plus.

The research will involve improving maize protein quality and quantity by incorporating alleles from wild maize. More information: https://www.uni-goettingen.de/de/-644546.html?details=1296 Please direct questions to Prof. Tim Beissinger: beissinger@gwdg.de

Prof. Tim Beissinger Chair of Plant Breeding Methodology, Department of Crop Science Managing Director, Center for Integrated Breeding Research University of Gï¿½ttingen Carl-Sprengel-Weg 1, 37075 Gï¿½ttingen Office phone:+49 551 39 24369; Home office: +49 1516 5268591 Email: beissinger@gwdg.de Web: www.uni-goettingen.de/plantbreeding "Beissinger, Timothy Mathes" <beissinger@gwdg.de>

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UIceland RoserootGenetics

3-year PhD position ""

A PhD position for three years (100%) is available at University of Iceland, Reykjavik Iceland.

University of Iceland seeks a highly efficient and motivated candidate for a new and exciting project. The project is funded for three years by RANNIS (The Icelandic Centre for Research) Technology Development Fund.Background: Roseroot (Rhodiola rosea) is in high global demand in the natural medicine industry where it is marketed as an antidepressant and for relieving stress and fatigue. It is also used for hair products and cosmetics. Collection has depleted wild populations and

roseroot is now red listed in several countries. In this project, partners with different expertise unite to find an optimal way to sustainably cultivate roseroot in Iceland for marketing as a high-quality product.

Field of work

The project: Roseroots from three habitats (lowland cliffs, highland tundra and mountain tops) will be compared with respect to ecological characteristics, genetic diversity, active compounds, rhizome biomass and seed quality. Transplanted individuals will be cultivated in experimental plots and after two growing seasons, scored for growth rate, biomass allocation and active rhizome compounds. We will then select the best population and compare options on product preparation for sale to food supplement, herbal medicine and cosmetic markets. One product will be a guide to the cultivation of roseroot in Iceland. We hope that the project may make the sustainable cultivation and sale of roseroot products an attractive sideline for traditional farmers in Iceland.

The project includes partners from different arenas. Participants from the University of Iceland come from the Faculty of Life and Environmental Sciences and the Faculty of Pharmaceutical Sciences. The farming partners will be responsible for cultivation and experimental plots. The final partner is a company on the cosmetics market.

The Ph.D. project addresses three aspects: 1) the ecology of the three wild populations 2) their genetic diversity and divergence 3) The Ph.D. candidate will be responsible for the assessment of the performance of the transplanted individuals after 2 years cultivation. Two professors in biology will be responsible for the ecological and genetic parts of the project and will supervise the Ph.D. candidate.

Qualification requirements

* M.Sc. degree in Biology, Ecology or Molecular Biology * Valuable experience of statistical analyses and bioinformatics or population genetics * Excellent English, both written and spoken * Good planning and organization skills * Ability to work both independently and in a team

The selected candidate must send a formal application for PhD studentship at the University of Iceland within one month after being offered the position.

Application process

The PhD student position starts in April 2023.

Applications should include: i) a cover letter stating the candidate‘s research interests and experiences in the field of the project, ii) a CV, iii) copies of university diplomas (BS and MS), iv) names and full contact information of two professional referees (including their relationship to the applicant).

For further information please contact Thï¿½ra Ellen Thï¿½rhallsdï¿½ttir (theth@hi.is) or Snï¿½bjï¿½rn Pï¿½lsson (snaebj@hi.is).

All applications will be answered, and applicants will be informed about the appointment when a decision has been made. Applications are valid in the system for 6 months after the application deadline.

Appointments to positions at the University of Iceland are made in consideration of the Equal Rights Policy of the University of Iceland - https://english.hi.is/node/-50017 The University of Iceland has a special Language Policy - https://english.hi.is/node/24581/ The University of Iceland is a flourishing community of knowledge and is a very dynamic and interesting workplace. Our values are academic freedom, professionalism and equality. The University strives to provide flexibility and encourages participation in the development of the study programs and research in all fields within the realm of the University. The School of Engineering and Natural Sciences employs ca. 390 people involved with teaching and research. The School offers an international working environment, where currently about quarter of all employees and graduate students are international, and that number is increasing each year. The school has around 2000 students and numerous graduate students. The School of Engineering and Natural Sciences is proud of itsï¿½ diversity and reform-minded environment where knowledge acquisition and sharing is paramount.

Application deadline

Application deadline is 30.12.2022

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UIdaho Genomics

Ph.D. Position in Comparative or Functional Genomics

The Jones Lab at the University of Idaho is recruiting one Ph.D. student to study the comparative genomics of seahorses, pipefishes and seadragons or the functional

genomics of sexual selection in African turquoise killifish (to start Fall 2023). The details of the project will depend on the interests of the student, and the project will likely involve international field work, molecular bench work, and bioinformatics.

The University of Idaho has research strengths in evolutionary biology and bioinformatics. In addition, it is located less than ten miles from Washington State University, which is home to another excellent group of evolutionary biologists. Scientists from the two universities collaborate and interact extensively.

The University of Idaho is located in Moscow, Idaho, which is a small college town situated in the Palouse region of Washington and Idaho. Moscow is known for its quaint downtown and its summer farmer's market. Thanks to its compact size, everything in Moscow is within walking or biking distance. In addition, Moscow's location on the Idaho-Washington border puts it within easy reach of abundant outdoor recreational opportunities.

Interested students should contact Adam Jones by email (adamjones@uidaho.edu) for more information about the projects and instructions on how to apply.

"Jones, Adam (adamjones@uidaho.edu)" <adamjones@uidaho.edu>

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UIllinois UrbanaChampaign EvolEcolBehav

Graduate position:UIllinois_UrbanaChampaign.EvolEcolBehav

The Department of Evolution, Ecology, and Behavior (EEB) at the University of Illinois is accepting applications for graduate students for admission in Fall 2023. We accept applications for both the Master's (M.S.) and Doctor of Philosophy (Ph.D.) degrees. We are an interactive group with expertise in evolution, ecology, behavior, bioinformatics, conservation, genetics & genomics, physiology, neuroscience, endocrinology, and morphology. Students take many approaches to their studies including field work on whole organisms, genomics/bioinformatics, lab experimentation, and theory.

The department of Evolution, Ecology and Behavior is housed within the School of Integrative Biology, home to over 30 faculty working in ecology, behavior, conservation and evolution. The University of Illinois at Urbana-Champaign offers state-of-the-art research facilities such as the Institute for Genomic Biology (IGB), the Beckman Institute (several research themes including bioimaging and Molecular Science and Engineering) and the Grainger College of Engineering. Urbana-Champaign is a pleasant, affordable, university town with good music and restaurants. It has its own airport and is close to three major U.S. cities (Chicago, Indianapolis, St. Louis).

Students for the Ph.D. are typically funded for 5-years with a combination of fellowships, research assistantships, and teaching assistantships. The deadline for consideration is December 15, 2022. However, prospective students should contact potential faculty advisors well in advance of applying to discuss research interests and relevant qualifications. For further information, see https://sib.illinois.edu/eeb/graduate_admissions . Please note that we have many types of fellowships including fellowships to help recruit students who come from groups that are under-represented in science.

The following faculty are actively recruiting students:

Philip Anderson ??? Evolutionary biomechanics in vertebrates, invertebrates and plants; dynamics of biological puncture systems such as fangs, stingers and thorns; influence of scale and speed on the fracture of biological tissues; evolution of multi-part biomechanical systems; paleobiomechanics of fossil organisms.

Becky Fuller - Evolutionary biology of fishes; evolution of color patterns/color vision; color vision in bass; speciation as a function of adaptation and genomic rearrangements; speciation in darters and killifish

Dan Miller ??? evolution and development of mammalian brain organization; neurobiological mechanisms of cellular plasticity; noninvasive biomarkers of individual phenotypic variation; evolution of cerebral cortical lamination millerdj@illinois.edu

Philip Andersonandersps@illinois.edu

"Anderson, Philip S L" <andersps@illinois.edu>

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UMemphis EvolAdaptiveMaternalEffects

The neuro- and epigenetic mechanisms of adaptive maternal effects in Drosophila melanogaster The Kohlmeier lab at the Department of Biological Sciences, University of Memphis, TN is recruiting a bright and motivated PhD student to start 08/15/2023 to unravel the neurogenetic and epigenetic mechanisms that regulate adaptive maternal effects and to identify the evolutionary drivers that facilitated their evolution.

Background: Temperature is an important regulator of biochemical and biological processes. Thus, fluctuations in temperature can select for mechanisms that enable females to anticipate future temperatures and to adapt their offspring to the predicted environment. While the adaptive values of such anticipatory maternal effects have been suggested theoretically and recently been demonstrated empirically, the molecular and cellular mechanisms via which females monitor temperature and induce transgenerational adaptations and how these adaptations modulate offspring gene expression and physiology is poorly understood. Preliminary data produced by our lab suggest that signaling of temperature sensing cells modulates the ovarian epigenome and by that, influences the maternal mRNA populations deposited into the developing oocyte.

The project: The goal of this project is (i) to identify the mechanisms via which temperature sensing modifies the ovarian epigenome and maternal mRNA populations, (ii) to reveal how maternal mRNA populations deposited into the egg differ in response to different temperatures, (iii) to dissect how those maternal mRNAs influence offspring temperature adaptation, and (iv) to understand how these mechanisms could have evolved. For this, we will integrate the neurogenetic toolkit exclusively available in Drosophila melanogaster with opto-/thermogenetic manipulations of individual neurons, RNA-sequencing, bioinformatics, transgenetics, standardized high throughput physiological and behavioral experiments developed in our lab to quantify temperature adaptation, analytic chemistry, and fluorescent microscopy.

Requirements: For this project, I am seeking a bright and motivated student with a passion for interdisciplinary work that integrates mechanistic and evolutionary approaches to understand the evolution of adaptive traits. Besides an organizational talent to handle flies of multiple genotypes in parallel, the ideal candidate has experience in performing behavioral experiments, molecular genetics, and statistics. Skills in bioinformatics (R, bash) or a high motivation to acquire these skills are essential. Experience in handling fruit flies is beneficial but not required.

About the city and the department: Memphis is a culturally rich city famous for its music, food and its historic importance. Situated at the Mississippi river and in close proximity to several State parks, Memphis combines city life with close-by natural habitats for recreation. The University of Memphis is a leading metropolitan research institution with over 30 faculty members specializing in diverse sub-disciplines of the biological sciences (see https://www.memphis.edu/biology/ for more information)

How to apply: Please compile the following documents into a single pdf file and send them to pkhlmier@memphis.edu:

- a cover letter explaining your previous experience and your research interests and how both are connected to the project described above

- a CV

- unofficial transcripts

- and contact information of two references

Application deadline is 11/30/2022.

Contact info: Dr Philip Kohlmeier / pkhlmier@memphis.edu / www.kohlmeierlab.com Philip Kohlmeier, PhD Assistant Professor Department of Biological Sciences University of Memphis

"Philip Kohlmeier (pkhlmier)" <pkhlmier@memphis.edu>

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UMiami AvianHighAltitudeAdaptation

PhD Student Positions - High-altitude Adaptation | Andean Waterbirds

Graduate student PhD positions are available beginning August 2023 to work on the evolution of hypoxia resistance in high-altitude waterbirds at the University

of Miami in Coral Gables, Florida, with Dr. Kevin McCracken and a team of collaborating investigators.

We seek one or more PhD students with interests in integrated physiology and evolutionary genetics to collaborate on comparative studies of Andean waterbirds. Studies are not limited to but might include respiratory and cardiovascular physiology, biochemistry of enzymes and metabolic pathways, and tissue and mitochondrial function. Students with strong computational skills and interests in population genomics and/or gene expression are especially encouraged to contact us.

Travel to remote Andean field sites and to collaborating labs will be required. Experience and/or interest in contributing to museums collections and genetic resources is desirable. Spanish speaking/writing skills would be helpful. Students from western South America are especially encouraged to apply. Foreign applicants will be sponsored by the university for the F1 student visa, but applicants should be eligible for visa-free travel to Andean community countries or arrange for the equivalent valid entry documents.

Typical duration of funding for a PhD student at the University of Miami is at least five years with stipends of approximately $28,000/year, including a full tuition waiver and health benefits with expected increases for cost of living to come each year. Both university fellowships and departmental teaching assistantships are available.

Applications to the PhD program at UM are due 1 December 2022 for fall 2023 admission (https://-biology.as.miami.edu/graduate/index.html).

Individuals who want to apply should first send a statement including background and research interests and curriculum vitae to:

Dr. Kevin McCracken Kushlan Chair in Waterbird Biology & Conservation Department of Biology University of Miami Coral Gables, FL 33146, U.S.A. kevin.g.mccracken@gmail.com +1 (907) 378-2100 www.duckdna.org Kevin McCracken <kevin.g.mccracken@gmail.com>

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UMissouri Columbia EvolutionaryGenomics

Multiple PhD student positions in Evolutionary and Environmental Genomics

Sen Xu's lab (https://blog.uta.edu/xus/) will be joining the Division of Biological Sciences, University of Missouri, Columbia in the summer of 2023. We are recruiting multiple graduate students that are interested in pursuing evolutionary genomics and molecular biology research, with a start date in the Fall semester 2023. For current research directions in the Xu lab, please refer to this webpage https://biology.missouri.edu/grad/-recruiting-labs For the application procedures to join the graduate program (deadline is Dec 1, 2022) of Biological Sciences at University of Missouri, Columbia, please check out this webpage (https://biology.missouri.edu/-grad-program)

Interested applicants are encouraged to contact Sen Xu first through email (sen.xu@uta.edu), with a short description of previous research experience and research interest, CV, and contact information for two references. Informal inquiries are also welcome.

Best regards, Sen

Sen Xu, Ph.D. Associate Professor Department of Biology, University of Texas at Arlington 501 S. Nedderman Dr, Arlington, Texas, 76019

Email: sen.xu@uta.edu Office: Life Science B08 Office Phone: 817-272-3986 Fax: 817-272-2855 Lab website: http://blog.uta.edu/xus/ "Xu, Sen" <sen.xu@uta.edu>

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UMissouriSTL Diversification

Ph.D. or M.S. Position in Evolutionary Ecology

The Social Insect Diversity Lab (Miller Lab) at the University of Missouri - St. Louis is recruiting graduate students to start in Fall 2023. The lab focuses on the

interaction between sociality and diversification. Current projects are centered on diversification in North American paper wasps (genus: Polistes). Paper wasps are one of the largest groups of social Hymenoptera and includes several important invasive pest species. Paper wasps have a wide diversity of cooperation rates, face and body coloration, size, and chromosome number. Potential projects can apply a variety of methods ranging from comparative genomics, population genetics, animal behavior studies, and field studies. We are a new lab open to applicants pursuing a wide variety of projects depending on your interest and background.

The UMSL Biology Department is home to the Whitney R. Harris World Ecology Center. The department has collegial and active research programs in ecology, evolution, and behavior, supporting and promoting research in biology and biodiversity throughout the world. Students and faculty interact with the vibrant St. Louis scientific community through connections with the St. Louis Zoo, Missouri Botanical Garden, and the Living Earth Collaborative at Washington University. UMSL is a diverse urban public university and applicants from all backgrounds are encouraged to apply. St. Louis consistently ranks as one of the most affordable metro areas and one of the best regions for new college graduates.

Interested students should send an introductory email and CV to Dr. Sara Miller at semiller@umsl.edu. Experience with insect field research, big data analysis, or the R programing language is a plus but not required.

To be eligible for financial support, Ph.D. applications must submit applications by December 15, 2022. See the UMSL Biology Applications and Admission website for more information (https://www.umsl.edu/~biology/-Graduate%20Programs/applic.html)

"Miller, Sara" <semiller@umsl.edu>

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UNCGreensboro Genomics

The McLean Lab (https://www.mclean-lab.org/) at University of North Carolina Greensboro (http://-www.uncg.edu/) is recruiting PhD and Masters-level students to study flea genomics and the evolution and ecology of mammal fleas in Central Asia (Mongolia and Kazakhstan). The work is funded by a collaborative National Science Foundation grant. Students will have the opportunity to work in a highly collaborative context, engage with international collaborators, and apply cutting-edge genomic techniques to wild-caught fleas to better understand flea biodiversity, landscape-level population connectivity, and host associations in grasslands and steppes of Central Asia.

Research in the McLean lab bridges evolution and ecology and is especially geared towards understanding structure and complexity of multi-host, multi-parasite networks and their responses to past and present environmental change. We use an integrative toolkit that emphasizes fieldwork, museum collections, phylogenomics, community analyses, and biodiversity informatics approaches. Prospective applicants will be encouraged to develop research projects that apply one or more of these tools to flea genomic evolution. Successful applicants will begin graduate school in August 2022, with the option to work as a field technician on lab project(s) during summer 2022.

To inquire about positions, please email Bryan McLean (b_mclean@uncg.edu) no later than November 15th and include: 1) a description of your general interests in ecology and evolution, and 2) an updated CV including a summary of academic and research experiences.

UNCG is a minority-serving institution that embraces diversity and inclusivity, and applicants from populations traditionally underrepresented in STEM are encouraged to reach out for more information about this position. Students accepted into the lab will be provided a tuition waiver and a competitive stipend. Additional competitive fellowships may be available. The deadline for application to the Environmental Health Science PhD program is 15 January 2023.

For more information about the UNCG Graduate Program in Biology, please visit:

https://biology.uncg.edu/graduate/mission/ . For more information about the HIGH quality of life and LOW cost of living in Greensboro, please visit:

https://www.greensboro-nc.gov/i-want-to https://-/realestate.usnews.com/places/north-carolina/-greensboro Bryan McLean Assistant Professor University of North Carolina Greensboro Greensboro, NC 27402 www.mclean-lab.org *> explore UNCG Mammal < https://arctos.database.museum/-SpecimenSearch.cfm?guid_prefix=UNCG%3AMamm > and Parasite < https://arctos.database.museum/-SpecimenSearch.cfm?guid_prefix=UNCG%3APara > Collections via Arctos <* *> My working hours may not be your working hours. Please do not feel obligated to respond outside your normal working time. <*

The McLean Lab (https://www.mclean-lab.org/) at University of North Carolina Greensboro (http://-www.uncg.edu/) is recruiting PhD and Masters-level students to study functional anatomy and ecomorphology of mammals. The lab is especially interested in form-function relationships and exploration of phenotypic traits (including soft tissues) that can become new proxies for understanding community assembly in mammals worldwide. Students will work in a collaborative and integrative environment, with access to a micro-computed tomography (CT) scanner and substantial microscopy equipment at UNCG and the Joint School for Nanoscience and Nanotechnology in Greensboro, NC.

Research in the McLean Lab bridges mammalian evolution and ecology and relies on an integrative toolkit including fieldwork, specimen-based research, phylogenomics, community ecology, and biodiversity informatics. Students will be encouraged to develop question-driven projects in one of the ecological contexts we work in, including: the Southern Appalachian Mountains, western North America, or Central Asia (Mongolia and Kazakhstan).

To inquire about positions, please email Bryan McLean (b_mclean@uncg.edu) no later than November 15th and include: 1) a description of your general interests in ecology and evolution, and 2) an updated CV including a summary of academic and research experiences.

UNCG is a minority-serving institution that embraces diversity and inclusivity, and applicants from populations traditionally underrepresented

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UNevada Reno EvolGenomicsBioinformatics

GRADUATE STUDENT POSITIONS IN EVOLUTIONARY GENOMICS AND BIOINFORMATICS AT THE UNIVERSITY OF NEVADA, RENO

The Alvarez-Ponce lab at the University of Nevada, Reno, is accepting applications from potential M.S and Ph.D. students.

Research in our lab focuses on the evolution of genes and genomes, and how this evolution is shaped by natural selection. Specific topics include rates of protein evolution, the evolution of molecular networks, the evolution of methylomes and gene duplication. More information about the lab can be found at www.genomeevol.wordpress.com . The ideal candidates would have: - A strong commitment to conducting high-quality research. - A strong interest in Molecular Evolution. - Experience with bioinformatics analyses, including programming in any scripting language (e.g. PERL or Python), or a strong willingness to learn. - Good communication skills. - Good interpersonal skills. - The requirements to be accepted in the graduate program (EECB, CMB, or Biology programs).

Official applications are due to the Graduate School in mid-December (PhD programs) or early February (MS in Biology program). Informal applications should be sent to Dr. David Alvarez-Ponce (dap@unr.edu), including: - A short application letter, addressing the applicant's motivation for the position, and how her/his experience and skills fulfill the requirements listed above. Please include your GPA and TOEFL/IELTS scores. - A CV, including contact information for potential referees.

The University of Nevada, Reno offers an interactive and productive research environment, including outstanding core facilities in genomics and bioinformatics. The Biology Department has a growing evolutionary genomics research community. Reno is located in the Sierra Nevada mountains near Lake Tahoe, and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Please circulate this post among suitable candidates.

David Alvarez-Ponce, PhD (he/him/él) Associate Professor Department of Biology University of Nevada, Reno Max Fleischmann Agriculture Building, office 147A Tel.: (775) 682-5735 www.genomeevol.wordpress.com David Alvarez-Ponce <david.alvarez.ponce@gmail.com>

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UNorhtCarolina Wilmington SeagrassGenomics

The Coastal Plant Ecology (https://-jarvislab.weebly.com/) and the Marine Evolutionary

Ecology (https://www.thekamellab.com/) Labs at University of North Carolina WILMINGTON (http://www.uncw.edu/) are recruiting a PhD-level student to study resiliency traits of edge-of-range seagrass populations in North Carolina and Virginia. The labs are especially interested in two components of seagrass resiliency: (i) genomic diversity and (ii) sexual reproduction, as these have been shown to significantly influence the ability of seagrasses to absorb change and continue to persist. Students will work in a collaborative and integrative environment, which features state of the art core facilities in spectrometry and spectroscopy, light stable isotopes, DNA and water quality analysis as well as running seawater systems, a coastal workboat fleet and a wide range of oceanographic equipment that are available to all researchers.

The selected student will be based at the UNCW Center for Marine Science (https://uncw.edu/cms/) and will participate in research that bridges marine evolution and ecology and relies on an integrative toolkit including fieldwork, adaptive genomics, community ecology, and bioinformatics. Students will be encouraged to develop question-driven projects that relate to population resiliency to climate change related stressors.

To inquire about this position, please email Jessie Jarvis (jarvisj@uncw.edu) no later than November 15th and include: 1) a description of your general interests in seagrass ecology and evolution, and 2) an updated CV including a summary of academic and research experiences. Individuals with previous genomics experience are especially encouraged to contact us.

UNCW embraces diversity and inclusivity, and applicants from populations traditionally underrepresented in STEM are encouraged to reach out for more information about this position. Students accepted into the lab will be provided a tuition waiver and a competitive stipend. Additional competitive fellowships may be available. The priority deadline for application to the Integrative, Comparative, & Marine Biology Program PhD program is 15 February 2023.

For more information about the UNCW Graduate Program in Biology and Marine Biology, please visit:

https://uncw.edu/bio/grad-phd.html Stephanie Kamel Associate Professor & Graduate Coordinator Department of Biology & Marine Biology University of North Carolina Wilmington 601 South College Rd., Wilmington, NC 28403 Office: 910.962.2841 | Email: kamels@uncw.edu Website: Marine Evolutionary Ecology Lab < https://thekamellab.com/ >

“Kamel, Stephanie” <kamels@uncw.edu>

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UOregon ForensicGenetics MolecularEvolution

Recruiting PhD students in forensic genetics and tandem repeat evolution at the University of Oregon

The Rohlfs labis looking to support PhD students to collaborate on two funded projects toquantify the accuracy of forensic genetic technologies, and tospecify the evolutionary role of tandem repeat variants. We have ideas to get started, and the scientists will have agency to steer the projects as they progress. These positions will be based in Eugene, OR at the University of Oregon in theData Science Initiativeand theInstitute for Ecology and Evolution.

These are great opportunities for scientists who are excited about genetic variation and/or molecular evolution, and who are looking to make a social impact. While the work is very much computational biology, this is an interdisciplinary team, so you can join and get started without extensive computer programming experience and deep biological background. The scientists’ primary roles will be to conduct and communicate research, and they will also be well-positioned to mentor undergraduates in the lab. The lab welcomes innovative clear communication, and examination of social justice questions related to our work.

Interested scientists can apply through either the UO-Biology PhD program(rotation program), orComputer Science PhD program(direct admit). Don’t hesitate to reach out with any questions!

Rori Rohlfs (she/her) Associate Professor of Biology San Francisco State University Ramaytush Ohlone land

https://rohlfslab.weebly.com/ Rori Rohlfs <rrohlfs@sfsu.edu>

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UppsalaU CelegansExperimentalEvolution

Ph.D. position in Evolutionary Biology

https://www.uu.se/en/about-uu/join-us/details/-?positionId=548877 Job ID #UFV-PA 2022/3546

Application Deadline: October 27, 2022

A PhD student position is available in the newly-established laboratory of Professor Vaishali Katju in the Evolutionary Biology program at the Department of Ecology and Genetics, Uppsala University (Sweden).

Project description We are seeking a Ph.D. student interested in combining the power of experimental evolution using Caenorhabditis elegans with genetic and high-throughput genomic approaches to investigate fundamental questions in evolution. Our research program is diverse and includes multiple ongoing projects investigating (but not restricted to) (i) the fitness effects and evolutionary dynamics of spontaneous mutations, especially copy-number variants, (ii) the fitness consequences of selfish mitochondria and the genetic basis of mitonuclear adaptation, (iii) genomic conflict and compensatory evolution, and (iv) the genetic basis of adaptation following fitness decline and recovery. The successful candidate will be involved in analyzing both whole-genome sequence and transcriptome datasets of experimentally evolved C. elegans populations but will also have opportunities to design and initiate novel projects of choice that fall within the umbrella theme of our expertise.

Duties The position will both involve both wet-lab and computational components. The wet-lab component will involve experimental evolution projects with C. elegans and standard molecular procedures (DNA and RNA extraction, PCR, sequencing, gel electrophoresis, genomic library preparation, among others). Additionally, there is scope for incorporating genome editing using CRISPR/Cas9 approaches and employing standard genetic backcrossing techniques. All projects are expected to involve a strong bioinformatic component involving analyses of DNA-Seq and/or RNA-Seq datasets. Training will be provided when necessary.

Qualifications required To be eligible for a PhD-student position the applicant must hold a Master's degree in evolutionary biology and well-versed with fundamental principles/theory of population genetics, quantitative genetics, and molecular evolution. Applicants lacking a Master's degree in evolutionary biology will not be given further consideration. Great emphasis is placed on personal qualities such as planning and organizational skills, strong motivation and ability to problem-solve, strong interpersonal communication skills and an ability to work collectively with other group members while fostering a collaborative work atmosphere. The candidate must possess documented experience and proficiency in both spoken as well as written English.

Qualifications desired Candidates having experience with experimental evolution, C. elegans husbandry, molecular biology and bioinformatic/statistical analyses of large data sets will be given preference.

For more details, please visit the link provided.

Vaishali Katju Professor Program in Evolutionary Biology Department of Ecology and Genetics Norbyvägen 18D, 752 36 Uppsala Uppsala University, Sweden

<mailto:vkatju1859@tamu.edu>

Email: Vaishali.Katju@ebc.uu.se

Tel (office): 018-471 6468 Tel (office) for international calling: +4618-471 6468 <mailto:vkatju1859@tamu.edu>

Website: www.Katju-EvolutionLab.net När du har kontakt med oss pÃ¥ Uppsala universitet med e-post sÃ¥ innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: http://www.uu.se/om-uu/dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy Vaishali Katju <vaishali.katju@ebc.uu.se>

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UQueensland Australia EcoEvoGlobalChange

PhD positions at the University of Queensland, Brisbane, Australia in collaboration with the University of British Columbia, the University of Arkansas, and MIT.

We have multiple fully-funded (salary and research funds) PhD positions to explore how rapid evolution affects the dynamics of plants and animals in an era of

global environmental change. Successful applicants will be advised by an international team of ecologists and evolutionary biologists including Dr Simon Hart (University of Queensland), Dr Masato Yamamichi (University of Queensland), Assoc. Prof Serguei Saavedra (MIT), Assist. Prof Rachel Germain (University of British Columbia), and Prof. Adam Siepielski (University of Arkansas).

We are looking for curious and creative students who have a strong quantitative focus and a desire to work in a supportive and engaging team environment. We are particularly interested in candidates with one or more of the following attributes, each of which is desirable but not necessarily essential: a) a background in ecology and/or evolutionary biology, b) strong statistical, mathematical and/or computational skills, c) experience with laboratory and field experimental/sampling designs, d) practical experience with molecular genetics, e) experience working in freshwater ecosystems, f) strong written and verbal communication skills.

More details about the opportunity can be found here https://t.co/gKUbFEidhd and here https://-scholarships.uq.edu.au/scholarship/how-does-rapid-evolution-affect-ecological-dynamics-era-global-environmental-change . To apply, please submit a cover letter detailing your experience and research interests, with particular reference to the desirable attributes, as well as your CV, university academic transcripts, and names and contact details of three references to Simon Hart at s.hart@uq.edu.au. Applications will be accepted and considered immediately, and will continue to be accepted and considered until the positions are filled. The PhD projects will commence as soon as possible, and ideally no later than half-way through 2023.

If you would like more information, please contact Simon Hart in the first instance. We can then arrange meetings with the other Investigators/Advisors on the project as appropriate.

Simon Hart <s.hart@uq.edu.au>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

s.hart@uq.edu.au

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USheffield SexualSelectionGenomics

We are seeking a motivated and enthusiastic PhD student to study the evolution and genomics of sexual dimorphism in stalk-eyed flies

Evolution and genomics of exaggerated sexual ornaments

Deadline for applying: Jan 13th 2023 Lead supervisor: Dr Alison Wright (University of Sheffield) Co-supervisors: Prof Jon Slate (University of Sheffield), Prof Steve Paterson (University of Liverpool), Prof Andrew Pomiankowski (UCL)

The Project Sexual selection is a powerful agent of evolution, responsible for some of the most striking traits in the animal kingdom. Many of these sexual traits are highly exaggerated, particularly in males, and are thought to have evolved as honest signals of male quality in response to female preference. Establishing how these traits and preferences arise is vital to understanding how and why the diversity of life is established and maintained.

This project will study the evolution and genomics of exaggerated male ornaments and female preference using new single-cell sequencing data and stalk-eyed flies as a model system. Stalk-eyed flies are a classic model of sexual selection as they exhibit highly-exaggerated eye-stalks, with males often having an eye span greater than their body length. The specific questions and approaches taken can be tailored to the particular interests of the student.

This work would suit a highly motivated student with strong analytical skills and an enthusiasm for evolution and genomics. Prior experience with bioinformatics is welcomed but certainly not required. The project will involve computational and laboratory work, and the successful candidate will receive high quality training in computational programming, wet-lab skills and insect husbandry. Additionally, there will be ample opportunity for the student to develop their own research interests over the course of the project.

The Team The PhD student will be joining a productive and collaborative research group in the School of Biosciences at the University of Sheffield. There will be many opportunities to collaborate with ongoing work in the lab. For more details see www.alisonewright.co.uk .The applicant will also benefit from the range of ex-

pertise offered by co-supervisors Prof Jon Slate (U. Sheffield), Prof Steve Paterson (U. Liverpool) and Prof Andrew Pomiankowski (UCL). Applicants are strongly encouraged to contact Dr Alison Wright, the lead supervisor, for more details on the group, project and facilities (a.e.wright@sheffield.ac.uk).

For details on how to apply, including eligibility, see: https://accedtp.ac.uk/how-to-apply-to-acce-dtp/ & www.alisonewright.co.uk & https://www.findaphd.com/phds/project/acce-dtp-studentship-evolution-and-genomics-of-exaggerated-sexual-ornaments/?p148840 Dr Alison Wright

Ecology and Evolutionary Biology School of Biosciences University of Sheffield www.alisonewright.co.uk Alison E Wright <a.e.wright@sheffield.ac.uk>

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USheffield SexualTraitsEnvironChange

Understanding the links between animal sexual traits and environmental change

Overview:

The Cooney lab is seeking a motivated and enthusiastic PhD student to study the links between animal sexual traits and environmental change.

Deadline for applying: 13 Jan 2023 Start date: 01 Oct 2023 Lead supervisor: Dr Chris Cooney (University of Sheffield) Co-supervisors: Dr Liam Dougherty (University of Liverpool), Dr Gavin Thomas (University of Sheffield), Prof David Edwards (University of Sheffield)

The project:

Humans have brought unprecedented changes to environments worldwide. A major priority for conservation is to understand how organisms will respond to environmental change, both in terms of the vulnerability of species to extinction and how populations may evolve when faced with novel pressures.

Species' traits have long been at the forefront of efforts to understand population responses to environmental change, with existing research focusing on the importance of biogeographic and ecological factors. However, a key outstanding goal is to understand the interactions between environmental change and species' sexual characteristics. There are good reasons to expect that traits related to mate choice, sexual signalling, and reproduction may affect species' vulnerability to extinction and/or their evolutionary responses to novel environmental conditions.

The aim of this PhD is to understand the relationships between animal sexual traits and environmental change, and to shed light on the factors influencing extinction risk and the contemporary evolution of species' sexual traits.

Specific objectives include: (1) assessing the importance of sexual traits for determining extinction risk; (2) investigating whether and how environmental change is driving contemporary evolution of sexual traits; (3) investigating the consequences of environmental change for the future of animal sexual trait diversity in the Anthropocene. The project will make use of large unpublished datasets of avian sexual traits, including high-quality measurements of plumage colouration and song: two traits that act as important sexual signals for mates and rivals in birds.

We welcome applications from candidates with broad interests in ecology, conservation and evolution to tackle this novel and exciting opportunity. Training will be provided in specific analysis techniques and the successful applicant will acquire advanced computational and communication skills that are highly transferable. There will be ample opportunity for the successful applicant to develop specific research questions over the course of the project.

The team:

The PhD student will be embedded within Dr Chris Cooney's lab (www.cooneylab.co.uk) in the School of Biosciences at the University of Sheffield. All supervisors are currently working on research projects that directly complement this studentship, providing an excellent research environment. The student can expect to work closely with supervisors and their respective collaborators around the world.

How to apply:

To apply, see: https://accedtp.ac.uk/how-to-apply-to-acce-dtp/ For more details, including eligibility, see: https://www.findaphd.com/search/-ProjectDetails.aspx?PJID=148835 We encourage applications from candidates from all backgrounds. Informal enquiries are strongly welcomed and encouraged. If you are interested, please contact Dr Chris Cooney at c.cooney@sheffield.ac.uk.

Funding notes:

This project is part of the NERC ACCE Doctoral Train-

ing Partnership. Appointed candidates will be fully funded for 3.5 years.

This funding includes: (i) Tax-free annual UKRI stipend (17,668 for 2022/23 academic year); (ii) UK tuition fees; (iii) Research support and training grant (RTSG).

Note: International students will need to have sufficient funds to cover the costs of their student visa, NHS health surcharge, travel insurance and transport to the UK as these are excluded from UKRI funding.

NERC Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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UTasmania Two sedaDNA

Please see below the advertisement for two PhD positions on Southern Ocean sedaDNA and Antarctic krill sedaDNA at the Institute for Marine and Antarctic Studies (IMAS), University ofTasmania, Australia. The positions are open to Australian and international applicants, with a scholarship application deadline on the 10th of October 2022. Applicants who are interested but may not make the application deadline are encouraged to contact Linda before the 10th of October to discuss interest in and application for either position (linda.armbrecht@utas.edu.au).

Southern Ocean sedaDNA The influence of palaeoclimatic changes on Southern Ocean biodiversity Comparative palaeoecological studies are a valuable source of long-term data on biodiversity responses to environmental change that can provide important insights into future climate change responses. Palaeoecological studies of marine taxa have been challenging, however, with recent technological advances in sedimentary ancient DNA research (sedaDNA), such studies can now be realised. This computationally focused project will utilise genetic sequence data extracted from sediment cores collected at various sites in the Southern Ocean. These sedaDNA datasets were generated using metagenomic shotgun and/or RNA based hybridisation-capture techniques to capture degraded and fragmented sequences. The project will focus on (1) developing bioinformatic approaches for analysing and validating metagenomic sedaDNA, and (2) reconstructing millennia-scale records of biodiversity presence at key sites in the Southern Ocean and placing these into context with palaeoclimatic records to identify key environmental drivers associated with shifts in biodiversity. This research will provide new insight into the past effects of climate change on biodiversity in the Southern Ocean, and will result in advances in bioinformatic approaches for ancient DNA analyses. Supervisors: Dr Linda Armbrecht, Dr Jane Younger, A/Prof. Chris Burridge, IMAS, Australia More info at: https://www.utas.edu.au/research/degrees/available-projects/projects/marine-and-antarctic/southern-ocean-sedadna/_nocache Antarctic krill sedaDNA Probing ancient Antarctic krill populations Antarctic krill are vastly abundant crustaceans in the Southern Ocean, where they are a critical ecosystem component linking plankton to predators and contributing to biogeochemical cycles. Climate change, and in particular, winter sea-ice habitat reduction and ocean acidification, as well as an increasing krill fishery, could lead to a population decline of this keystone species. To assess the potentialimpacts on krill population sustainability and resilience, studies investigating past records of environmentally driven krill population dynamics are crucial. To date, such paleo-studies targeting krill have been impossible as krill leave no fossil record for microscopic investigation, however, with recent technological advances in sedimentary ancient DNA research (sedaDNA), such studies can now be realised. In fact, the application of sedaDNA analyses to reconstruct Antarctic marine ecosystems has already been shown, including the possibility to extract ancient DNA from crustaceans. Thisresearch will build on these already existing sedaDNA techniques and target Antarctic krill specifically. The latter will be achieved by applying an RNA based hybridisation-capture technique, a method that has been commonly used in ancient DNA research to capture very degraded and fragmented sequences. The capture approach will target krill for the first time, to investigate their dynamics over thousands of years. This research will fill an important gap in our understanding of how Antarctic krill responded to past environmental change - knowledge that will improve predictions about future adaptation to ongoing climate change. Supervisors: Dr Linda Armbrecht, Prof. Kerrie Swadling (IMAS) Dr Leonie Suter, Dr So Kawaguchi (AAD), Australia More info at: https://www.utas.edu.au/research/degrees/-available-projects/projects/marine-and-antarctic/-antarctic-krill-sedadna/_nocache Dr Linda Armbrecht ARC DECRA Fellow in Antarctic Climate Change Chair ANZIC Science Committee Adjunct Fellow Australian Centre for Ancient DNA (ACAD)

Institute for Marine and Antarctic Studies (IMAS) Col-

lege of Sciences and Engineering University of Tasmania imas.utas.edu.au

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UTennessee Knoxville FunctionalMolEvol

The Gilchrist lab in the Department of Ecology and Evolutionary Biology (EEB) at the University of Tennessee Knoxville (UTK) is recruiting M.S. and Ph.D. level graduate students interested in studying functional molecular evolution and genomics.

The lab's primariy focus is on building, fitting, and refining mechanistic models of translation in order to (a) better understand the evolution of codon usage at the gene and genomic levels and (b) improve interpretation of publically available empirical datasets of gene expression (RNAseq, RibosomeSeq, etc). The lab's secondary focus is in the area of phylogenetics. Specifically, functional phylogenetics where models of protein function and expression are integrated into models of protein sequence evolution and models of Ultraconserved Element (UCE) evolution where selection varies with position inside a UCE.

The ideal student would have a strong interest and experience in one or more of the following areas: computer programming and software development, statistical inference, mathematical modeling, population genetics, and molecular evolution. Students need not have mathematical training beyond calculus, but an affinity for mathematics is a must.

The EEB department at the UTK is ranks amongst the best in the country. In particular, it is known for its dynamic and collaborative graduate program with outstanding senior and junior faculty members. Previous students from the Gilchrist lab have collaborated extensively with faculty within EEB and other departments at UTK. In addition, students have an opportunity to work with experimentalists and computational biologists at the nearby Oak Ridge National Laboratory.

Knoxville is located in beautiful Eastern Tennessee, near Great Smoky Mountains National Park, a biodiversity hot spot. It features everything from rock climbing to brewpubs to whitewater kayaking to arcades, and is in easy driving distance to Chattanooga, Nashville, Atlanta, and Asheville.

For more information contact: Michael Gilchrist at mikeg@utk.edu.

All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, genetic information, veteran status, and parental status. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the university. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), the ADA (disability), the Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone 865-974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.

Michael A. Gilchrist, Ph.D. Associate Professor He/Him and *fully vaccinated*

Dept. of Ecology & Evolutionary Biology Office Location: 439 Hesler Biology Building Mailing Address: 569 Dabney Hall University of Tennessee Knoxville, TN 37996-1610 Web page: https://eeb.utk.edu/people/michael-gilchrist "Gilchrist, Michael Aaron" <mikeg@utk.edu>

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UToronto AvianGenomics

PHD POSITIONS IN AVIAN GENOMICS, SPECIATION, AND COMPARATIVE PHYLOGEOGRAPHY AT THE UNIVERSITY OF TORONTO.

Multiple Ph.D. positions are available in the Weir Lab (http://www.utsc.utoronto.ca/~jweir/) in the department of Ecology and Evolutionary Biology (https://eeb.utoronto.ca/education/graduate/) at the Scarborough campus of University of Toronto (https://www.utsc.utoronto.ca/biosci/). Our lab uses genomic, morphological and behavioural data to address how speciation occurs in tropical and temperate regions, with a special focus on birds.

Possible PhD projects available include:

1) Genomic analyses of avian hybrid zones in Amazonian and Canadian birds. 2) Conservation genomics and phylogeography of New Zealand kiwi (using our dataset of 55 kiwi genomes). 3) Comparative phylogeography and population genomics across multiple co-distributed avian species complexes to better understand biogeographic drivers of diversification in boreal and Amazonian regions. 4) Analyses of rates of avian colour and song evolution across latitudinal gradients.

The positions would begin in September 2023 and could involve field work (collecting genetic samples in the Amazon of Peru, Brazil, and Canada), lab work (generating genetic data sets using next generation sequencing methods that sample broadly across the genome), and bioinformatic analyses (mining genomic data).

In addition, students can pursue graduate projects in any of the key research areas of the lab and exceptional students may wish to pursue their own projects.

If interested, please send Jason Weir (jason.weir at utoronto.ca) a statement of interest, a CV and an electronic copy of your transcripts. External sources of funding (e.g. fellowships) are generally required for international students (many Latin American countries as well as the EU offer these).

The Weir Lab has fostered a highly diverse group of personnel and seeks to continue to offer a safe place for members of the First Nations, Black, LGBT, and other minority communities.

Example publications from the Weir Lab (PDF's available at https://www.utsc.utoronto.ca/~jweir):

AMAZONIAN SPECIATION

Barrera-Guzman, A.O., A. Aleixo, F. Maya, S. Dantas, & J. T. Weir. 2022. Gene flow, genomic homogenization and the timeline to speciation in Amazonian manakins. Mol. Ecol. 31:4050-4066.

Barrera-Guzman, A.O., A. Aleixo, M.D. Shawkey, J.T. Weir. 2018. Hybrid speciation leads to novel male secondary sexual ornamentation of an Amazonian bird. PNAS. 115: E218-E225.

BIOGEOGRAPHY:

Bemmels, J.B., O. Haddrath, R.M. Colbourne, H.A. Robertson, J.T. Weir. 2022. Legacy of supervolcanic eruptions on population genetic structure of brown kiwi. Current Biology.32:1-9 Weir, J. W., O. Haddrath, H. A. Robertson, R. M. Colbourne, A. J. Baker. 2016. Explosive ice age diversification in kiwi. PNAS. 113: E5580-E5587.

CONSERVATION GENETICS:

Bemmels, J.B., E.K. Mikkelsen, O. Haddrath, R.M. Colbourne, H.A. Robertson, J.T. Weir. 2021. Demographic decline and lineage-specific adaptations characterize New Zealand kiwi. Proc. R. Soc. B. 288: 20212362.

TRAIT EVOLUTION: Anderson, S.A.S. & J.T. Weir. 2021. Character displacement drives trait divergence in a continental fauna. PNAS. 118:e2021209118

Jason Weir

Professor Dept. of Ecology and Evolution and Dept. Biological Sciences University of Toronto 1265 Military Trail Toronto, Ontario, Canada MIC 1A4 http://www.utsc.utoronto.ca/~jweir/ (reprints)

Jason Weir <jason.weir@utoronto.ca>

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UVermont EpigeneticsEvolutionInsects

Ph. D. Graduate Assistantship

Epigenetics and rapid evolution of insecticide resistance

Insect Agroecology and Evolution Lab

Dr. Yolanda Chen, Dept. of Plant and Soil Sciences, University of Vermont

Position availability: Fall 2023

Funding: USDA AFRI grant and teaching assistantship funds

Collaborators: Dr. Sean Schoville (Univ. of Wisconsin), Dr. Stephanie McKay (Univ. of Vermont), Dr. Russell Groves (Univ. of Wisconsin), and Dr. Joe Gunn (Univ. of Vermont)

Position Description: Agricultural insect pests show a remarkable ability to evolve resistance to insecticides; however, the evolutionary processes remain poorly understood. One possible explanation is that insecticide exposure may alter epigenetic modifications, which alter heritable patterns of gene expression without actually changing the underlying DNA sequence. The Colorado potato beetle (CPB), Leptinotarsa decemlineata, has been extraordinarily successful at adapting to all insecticide classes, including the neonicotinoid insecticide imidacloprid. As a research group, we are interested in understanding how epigenetics can contribute to rapid evolution of insecticide resistance in CPB.

Within the broad framework of epigenetics and insecticide resistance evolution, the student will be able to develop a unique research program at the intersection between ecology, evolution, and agricultural entomology. Potential topics could include transgenerational epigenetic inheritance, parent-of-origin effects, the relationship between DNA methylation and gene expression, germline stress and the mobility of transposable elements.

Requirements:â€ B.S. in biology, evolution, ecology, genetics, or related fields. A Master's is helpful but not required. Previous experience with entomology, molecular genetics, and bioinformatic programming is also helpful but not required. Excellent written and oral communication skills are expected. Applicants must meet the requirements of the Graduate College at University of Vermont.

Lab environment: The Insect Agroecology and Lab strives to advance diversity, equity, and inclusion in the sciences. We welcome all students that are interested in contributing to those goals.

To apply: Potential applicants should email the following: 1) a letter detailing why you are interested in the position, 2) a CV, and 3) an unofficial transcript to Prof. Yolanda Chen, (Yolanda.Chen@uvm.edu) by Dec. 1 for full consideration. The applications will be reviewed internally to determine applicant suitability.

Interview locations: Dr. Chen will be able to meet with prospective students at the following meetings:

§Entomological Society of America meeting in Vancouver, Canada Nov. 13-16, 2022. https://www.entsoc.org/events/annual-meeting §Plant Animal Genome, San Diego, USA, Jan. 13-18, 2023. https://www.intlpag.org/30/ Following the initial internal review, all suitable applicants will need to submit an online application portal through the Graduate College before Jan. 15, 2023. https://www.uvm.edu/graduate/application_instructions Dr. Yolanda Chen (she/her) Professor Faculty Fellow - Gund Institute for the Environment Department of Plant and Soil Science University of Vermont 63 Carrigan Drive Burlington, VT 05405 Phone: (802) 656-2627 Insect Agroecology and Evolution Lab < http://blog.uvm.edu/yfanslow/ >

Yolanda Chen <Yolanda.Chen@uvm.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UVermont EvolGenomics

Open PhD positions in Evolutionary Genomics, Ecological Physiology, and Molecular Evolution

The Lockwood Lab at the University of Vermont (https://lockwoodlab.weebly.com/) is seeking energetic and motivated graduate students with an interest in evolutionary genomics, ecological physiology and molecular evolution. Students will have the opportunity to participate in an Australian Research Council-funded project to study the physiology and genomics of invasive marine mussels (Mytlius spp.) in Australia and/or a National Science Foundation-funded project to study the genomics and physiology of thermal adaptation in fruit flies (Drosophila melanogaster). Students will be expected to develop their own dissertation project that reflects their own interests, within the overall goals of these funded projects. This is a unique opportunity to be involved in work that is highly integrative and will bring together a diversity of tools to elucidate mechanisms of environmental adaptation. Thus, students will have the opportunity to gain valuable training in genomic mapping, transcriptomics, protein biochemistry, and confocal fluorescence microscopy.

Summer support will be provided for four years; funding during the academic year will be in the form of teaching fellowships. Admission to the PhD program will be for Fall 2023.

Successful candidates will have strong academic records, meaningful previous research experience, and strong in-

terests in evolutionary genetics, genomics, and ecological physiology.

The University of Vermont offers a vibrant scientific community with a strong PhD program in Biology. In addition, UVM is located in Burlington, Vermont where you can enjoy an amazing quality of life. Burlington is a hip, little city surrounded by the lakes and mountains of northern Vermont. The area thrives on local food, international culture, and outdoor activities year-round.

Please send an email to Brent.Lockwood@uvm.edu if you are interested. Please include a CV, description of your background, and why you feel you are a good fit for the Lockwood Lab.

Applications are currently being accepted. The deadline to apply for Fall 2023 is December 15, 2022.

Brent Lockwood <bllockwood@gmail.com>

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UVermont EvolutionInsecticideResistance

Ph. D. Graduate Assistantship

Epigenetics and rapid evolution of insecticide resistance

Insect Agroecology and Evolution Lab

Dr. Yolanda Chen, Dept. of Plant and Soil Sciences, University of Vermont

Position availability: Fall 2023

Funding: USDA AFRI grant and teaching assistantship funds

Collaborators: Dr. Sean Schoville (Univ. of Wisconsin), Dr. Stephanie McKay (Univ. of Vermont), Dr. Russell Groves (Univ. of Wisconsin), and Dr. Joe Gunn (Univ. of Vermont)

Position Description: Agricultural insect pests show a remarkable ability to evolve resistance to insecticides; however, the evolutionary processes remain poorly understood. One possible explanation is that insecticide exposure may alter epigenetic modifications, which alter heritable patterns of gene expression without actually changing the underlying DNA sequence. The Colorado potato beetle (CPB), Leptinotarsa decemlineata, has been extraordinarily successful at adapting to all insecticide classes, including the neonicotinoid insecticide imidacloprid. As a research group, we are interested in understanding how epigenetics can contribute to rapid evolution of insecticide resistance in CPB.

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Lab environment: The Insect Agroecology and Lab strives to advance diversity, equity, and inclusion in the sciences. We welcome all students that are interested in contributing to those goals.

To apply: Potential applicants should email the following: 1) a letter detailing why you are interested in the position, 2) a CV, and 3) an unofficial transcript to Prof. Yolanda Chen, (Yolanda.Chen@uvm.edu) by Dec. 1 for full consideration. The applications will be reviewed internally to determine applicant suitability.

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§Entomological Society of America meeting in Vancouver, Canada Nov. 13-16, 2022. https://-www.entsoc.org/events/annual-meeting §Plant Animal Genome, San Diego, USA, Jan. 13-18, 2023. https:/-/www.intlpag.org/30/ Following the initial internal review, all suitable applicants will need to submit an online application portal through the Graduate College before Jan. 15, 2023. https://www.uvm.edu/graduate/-application_instructions Dr. Yolanda Chen (she/her) Professor Faculty Fellow - Gund Institute for the Environment Department of Plant and Soil Science University of Vermont 63 Carrigan Drive Burlington, VT 05405 Phone: (802) 656-2627 Insect Agroecology and Evolution Lab < http://blog.uvm.edu/yfanslow/ >

Yolanda Chen <Yolanda.Chen@uvm.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UYork ClimateChangeButterflyGenomics

The Dasmahapatra lab is recruiting a fully funded PhD student to investigate the genetic consequences of climate change-induced range shifts in butterflies is being advertised at the University of York (UK) as part of the NERC-funded ACCE Doctoral Training Partnership.

The evolutionary consequences of climate change are likely to be widespread, but are little understood. In particular, what happens when closely related species which used to be geographically separated come into contact as a result of climate-driven shifts to their distributions?

This PhD will research a model system of hybridisation due to climate change - as it happens. The brown argus butterfly (Aricia agestis) has moved northwards in Britain since the 1980s and has recently colonised parts of the distribution of the northern brown argus (Aricia artaxerxes). This studentship will examine the extent to which hybridisation between the two Aricia species is taking place, the evolutionary consequences of this, and ultimately assess the likelihood of survival of the northern species.

The project will involve fieldwork in Britain, lab work, and the bioinformatic analysis of genome sequences. You will benefit from using high quality genome assemblies from the Darwin Tree of Life Project and ecological data from the UK Biological Records Centre and Butterfly Conservation. You will benefit from access to York's dynamic research centres, the Leverhulme Centre for Anthropocene Biodiversity and the Stockholm Environment Institute.

Natural England is a CASE partner for this project, and will provide supervision, additional resources for fieldwork, and policy or conservation-based placement opportunities.

A background in evolutionary genetics and conservation would be useful, together with an interest in understanding the evolutionary consequences of global change.

Application deadline: January 13, 2023 Interviews: mid-February 2023 PhD Start Date: 1st October 2023

For further information about this project, including how to apply: https://www.york.ac.uk/res/dasmahapatra/aricia_phd.html For more information about the research group: https://www.york.ac.uk/res/dasmahapatra/index.html For any further questions please contact Dr Kanchon Dasmahapatra (kanchon.dasmahapatra@york.ac.uk).

Dr Kanchon Dasmahapatra Reader in Evolutionary Biology Director of Postgraduate Research (Biology) Department of Biology University of York York YO10 5DD Tel: +44 (0)1904 328635 http://www.york.ac.uk/res/dasmahapatra/ Kanchon Dasmahapatra <kanchon.dasmahapatra@york.ac.uk>

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UZurich BehaviourEvolution

We are seeking a PhD student to join us (Prof. Anna Lindholm < https://www.ieu.uzh.ch/en/research/behaviour/behaviour.html > & Dr. Andri Manser) in a research project at the University of Zurich studying the ecological and evolutionary impact of a naturally occurring selfish genetic element (called t haplotype) on wild house mouse populations. The t haplotype is a supergene in house mice with two key characteristics. First, males that carry two copies of the gene (t/t homozygotes) are sterile. Second, males that carry only one copy of the t (+/t heterozygotes) pass the gene on to 95% of their offspring rather than the 50% expected under Mendelian inheritance (gene drive). As a result, we expect t haplotypes to genetically propagate despite its sterility inducing effect, which may have far-reaching consequences for the populations that harbour them and which could have implications for the control of invasive mouse pests.

What will you be doing?

You will study the impact of the t haplotype on mouse behaviour and reproduction, as well as its ecological and evolutionary consequences in various experimental settings, from laboratory experiments, to enclosure populations, to a free-living population. Additionally, you will have the opportunity to contribute to analysis of relevant large datasets and/or modelling.

What are we looking for?

You are motivated by "why" questions, enjoy working with animals as well as designing and implementing experiments to test your ideas. You are collaborative, enjoy communicating your research and learning new skills. Experience with data analysis, modelling, and

publication experience will be viewed as a bonus. You are trained in evolutionary biology and bring a relevant MSc degree or equivalent.

What we offer

The University of Zurich offers a highly international largely English speaking environment. We offer a friendly working environment, excellent facilities, great collaborators, and strong support in developing your scientific skills and abilities. The project has four years of funding with a generous salary. Zurich offers great quality of life, consistently ranking in the top three cities worldwide.

How to apply

Please submit applications as a single pdf file, including a letter of motivation that highlights your interest in and suitability for the project, your CV, and recommendation letters or contact details of 2 references, by email to Dr Anna Lindholm (anna.lindholm@ieu.uzh.ch). Screening of applicants is ongoing. Start date is negotiable.

Anna Lindholm Krützen <anna.lindholm@ieu.uzh.ch>

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WashingtonStateU Vancouver EvolGenomics

Open PhD or MSc positions in Evolutionary Genomics and Evolutionary Ecology

The Rudman Lab in the School of Biological Sciences at Washington State University - Vancouver (https://-/labs.wsu.edu/rudmanlab/) is seeking motivated graduate students with an interest in evolutionary ecology, population genomics, and/or conservation genetics. Students will have the opportunity to participate in a National Institute of Health-funded project to study the pace, magnitude, and ecological consequences of rapid evolution. For examples of prior work around this theme see 1, 2, 3, 4. Students will be expected to develop their own dissertation project that reflects their own interests, within the overall goals of this funded project.

Funding during the academic year will be in the form of teaching assistantships, with semesters of research assistantship available as necessary based on thesis project design. Summer support will also be provided through research assistantships.

The application deadline is January 10th, 2023 (more info here). Successful candidates will have relevant previous research experience and strong interests in evolutionary ecology and/or genomics. Interested applicants should contact seth.rudman@wsu.edu with a statement of research interest, contact information for 3 references, and a CV. Informal email inquiries are also welcome.

The Rudman Lab is committed to creating a diverse, equitable, and inclusive working environment. Graduate students are expected to share in this commitment. Candidates from groups historically underrepresented in biological science research are especially encouraged to apply.

Vancouver, WA is located in the Portland, OR metro area and is a beautiful place to live and work. As the only public four-year educational institution in Southwest Washington, WSU Vancouver is dedicated to its land-grant tradition for openness, accessibility, and service to people. Situated on 351 scenic acres, WSU Vancouver is in the homelands of the Chinookan and Taidnapam peoples and the Cowlitz Indian Tribe. Employees and students alike value the beauty of campus. Recognized by Insight Into Diversity magazine as a top college for diversity, WSU Vancouver is committed to advancing equity, diversity, inclusion and belonging in all that it does.

“Rudman, Seth” <seth.rudman@wsu.edu>

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WesternMichiganU KillifishGenomics

Ph.D. and Master’s opportunities: The Genomics of Eco-Evo-Devo in Killifishes:

We are seeking highly motivated Ph.D. and Master’s students to begin research on comparative and functional genomics of annual and non-annual killifish adaptations to extreme environments. Killifishes are part of a highly diverse group of vertebrates that have evolved the ability to live in ephemeral ponds via developmental dormancy (diapause), and environmentally cued hatching. They also have skewed sex ratios and are thus emerging models for Eco-Evo-Devo and understanding the integration of developmental gene regulation and changing environments. The projects are led by the P.I. Andrew (Drew) Thompson in the Department of Biological Sciences at

Western Michigan University in Kalamazoo, Michigan.

Students will conduct research on the following topics:

How can vertebrates regulate growth and suspended animation of multiple, complex organ systems?

How do extremophiles integrate environmental and genetic cues to control hatching?

How do changing environments modulate sexual differentiation?

More specifically, the students will investigate the genomic basis and evolution of killifish developmental dormancy, environmentally-cued hatching, and/or sex determination. The students will apply functional genetic tools such as CRISPR/Cas9 and transgenesis and/or bioinformatic tools to understand gene, genome, and chromatin dynamics associated with the aforementioned developmental phenotypes. Students will also be expected to undertake an experimental approach to unravel how these genotypes integrate with different, extreme environmental conditions to produce phenotypic diversity and developmental plasticity.

Applicants should have interest and experience in some of the following: comparative genomics/transcriptomics, genetics, chromatin dynamics, genome annotation, gene editing (e.g. knockout, transgenesis, etc.), bioinformatics, fish husbandry, fish evolution, and phylogenetics.

The student will work under the supervision of Dr. Andrew Thompson and will begin the fall of 2023. Please send any inquiries and notification of interests to Dr. Andrew Thompson (Andrew.Thompson@wmich.edu). Please provide a CV and a message describing your research interests and reasons for considering joining the Thompson Lab at WMU.

For more information on applying to the PhD and Master's programs in the Department of Biological Sciences at Western Michigan University please visit:

https://wmich.edu/biology/academics/doctorate
https://wmich.edu/biology/academics/master-sciences
Andrew W. Thompson, Ph.D. Assistant Professor of Biological Sciences, Western Michigan University Email: Andrew.Thompson@wmich.edu Telephone: (269)387-5869 Website: https://drewt1023.wixsite.com/-andrewwthompson Andrew William Thompson <andrew.thompson@wmich.edu>

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Jobs

AmericanU Paris EvolutionaryBiology

Assistant Professor of Science The American University of Paris invites applications for a tenured-track Assistant Professor of Science beginning 1 August 2023. This full-time position is housed in the Department of Computer Science, Mathematics and Environmental Science.

Qualifications: The candidate must possess a PhD in Science by the time of appointment and have expertise in one of the following disciplines: Environmental Science, Ecology, Evolution, Conservation Biology, Biodiversity, Renewable Energy, Earth Science, Planetary Science, Astronomy.

Candidates should have a proven capacity for engaged teaching and research. Teaching experience in a liberal arts context and strong interdisciplinary interests are highly desirable. The successful candidate will be sharing a laboratory with several scientists, and priority will be given to student-centered research programs that have modest space and equipment requirements. The candidate must have excellent oral and written communication skills in English.The ability to speak French is a plus but is not required.

European Union citizenship or legal right to workin France, while helpful, is not necessary at the time of application.

We invite and encourage members of underrepresented populations to apply. The University is an equal opportunity employer for whom diversity is an essential source of vitality and strength.

The Institution: Founded in 1962, The American University of Paris (AUP) is a small, undergraduate and Master degree-granting institution with a Liberal Arts core, dedicated to the advancement of the Arts & Sciences in an international and multicultural environment. AUP brings together the values of the American higher education system with its location in Paris and Europe. Located at the crossroads of American and European institutions of higher educationand research, AUP facilitates its faculty's development of an international and stimulating professional network. The Middle States Commission for Higher Education accredits AUP in the United States of America. AUP has cooperative agreements with USA and European-based universities.

The Department: Cherishing the ideals of the liberal arts, the Department of Computer Science, Mathematics and EnvironmentalScience aims for a contextualized and active learning approach. Emphasizing interdisciplinary education and research, the department maintains close ties with other departments within the University as well as with research centres, universities, and industry in Europe and all over the world. The full-time faculty in the department have expertise in a diverse collection

of disciplines including evolutionary biology, behavioural ecology, biodiversity, biophysics, planetary science, astronomy, climate, computer science, data science, artificial intelligence, automated reasoning, human-computer interaction, number theory, group theory, statistics, and operations research.

The department hosts interdisciplinary majors in Environmental Studies, Quantitative Environmental Science, Mathematics and Computer Science, and Computer Science, along with five minors and a growing curriculum in Data Science, including a Master's program in Human Rights and Data Science. We contributeto AUP's innovative Global Liberal Arts Core Curriculum by providing AUPstudents with skills for quantitative, experimental and abstract reasoning; comprehension, analysis, and integration of knowledge; digital literacy and critical thinking; and skills to formulate and efficiently solve problems.

The department also hosts one of the university's five interdisciplinary Research Centers, the Edward & Joy Frieman Environmental Science Center, which combines cutting-edge environmental research involving undergraduates with public outreach and community engagement on current environmental issues.

Responsibilities: - The full-time teaching load consists of six courses per year within the undergraduate science curriculum. Faculty arealso expected to contribute to the development of new science courses.

- Teaching responsibilities will include general education science courses with accompanying labs, upper-level science courses, and interdisciplinary science electives. All scientists within the department take turns teaching an introductory Environmental Science course, and the candidate will have the opportunity to develop other courses within their discipline that alignwith the university's curricular needs.

- Maintain an active research program

- Maintain a competitive research program that involves undergraduate students, culminating in publications in peer-reviewed international journals.

- Research collaborations with other institutions are highly encouraged, particularly if specialized equipment or expertise is required.

- Service to the department will include advising students, participation in committee work and contributing to curricular development and innovation.

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AngeloStateU Texas CollectionManager

The Angelo State Natural History Collections (ASNHC) located in San Angelo, Texas is looking for a Collection Manager.

Job Posting: https://wfscjobs.tamu.edu/jobs/-collections-manager-angelo-state-natural-history-collection-san-angelo-texas/ ASNHC Website: https://www.angelo.edu/departments/biology/angelo-state-natural-history-collection/ Job Description: Under the supervision of the Curators and Department Chair, manages the teaching and scientific specimen collections and databases (Arctos and Symbiota) in the ASNHC, including the Herbarium, Mammalogy, Ornithology, Herpetology, and Genomic Resources collections. Serves to promote the ASNHC, department, and university through various forms of community outreach. Oversees undergraduate and graduate student assistants, interns, and volunteers working in collections. Participates in providing input toward new facility design.

Jason Strickland <jasonstrickland@southalabama.edu>

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ArizonaStateU GenomicEpidemiology

The Biomedical Informatics (BMI) program within the College of Health Solutions at Arizona State University seeks a full-time, 9-month tenure-eligible faculty member at the rank of Assistant Professor in genomic epidemiology and bioinformatics of pathogens.

The ideal candidate will have experience in both methodological and applied aspects of the field. Examples of methodological research could be the design and development of software or APIs for improving computational efficiency of phylodynamic modeling of large sequence datasets or methods to address sampling bias when using sequences from pathogen repositories. Examples of

applied research could be the use of existing software and tools that use sequences and metadata to estimate the migration of pathogens during an outbreak including the origin location and the presence and timing of any zoonotic introductions from non-human hosts. We particularly encourage applications from candidates who have research expertise in one or more of the following areas: A. Genomic epidemiology of pathogens such as influenza, SARS-CoV- 2, malaria, and West Nile virus; B. Pathogen genomic sequencing of clinical or environmental samples; C. Bioinformatics pipelines for analysis of high-throughput pathogen sequencing data; D. Pathogen evolution and implications for population health; E. The impact of climate change and heat on pathogen transmission (including vector-borne) and health disparities

The biomedical informatics program within the College of Health Solutions includes eleven tenure/tenure track and two career-track faculty who specialize in different areas of the field including translational bioinformatics, pathogen bioinformatics and genomic epidemiology, imaging informatics, clinical informatics, consumer health informatics, and population health informatics and health disparities. The majority of BMI faculty have offices and labs at the ASU Health Futures Center at the Mayo Clinic Hospital campus in north Phoenix. Some of our faculty have space on the downtown Phoenix campus and on the Tempe campus. All BMI faculty teach courses in our academic programs including our bachelors (BS), masters (MS and MAS), and doctoral (PhD) programs.

Responsibilities for this position include developing and maintaining a successful research program, teaching undergraduate and graduate courses in biomedical informatics, mentoring students, and providing service to the program and university as well as to the community and profession. The ideal candidate will present promise of a successful research trajectory, including peer-reviewed publications commensurate with the relevant rank, potential for extramural funding, and a strong commitment to high quality teaching and mentoring.

At ASU and the College of Health Solutions, we work to maximize opportunities for people from diverse backgrounds, abilities and perspectives. We value and encourage cultural and intellectual diversity, and strive to foster a welcoming and inclusive environment for all faculty, staff and students ? which we believe is critical to our success as a community. All individuals who can strengthen the diversity of our academic community are encouraged to apply, and will be considered without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other basis protected by law.

About the College of Health Solutions The College of Health Solutions is committed to translating scientific health research and discovery into practice to improve health outcomes through education, research and service. We equip students with the knowledge and skills to influence healthier lifestyle choices; develop creative interventions to improve the health of people and populations; analyze and translate large amounts of health data into solutions; and maximize the technology, science, business and application of diagnostics. Through teaching, academic programs, service and research, all faculty at the College of Health Solutions address one or more of our three major areas of focus: 1) The systems of health care and the health needs of populations; 2) Health and human performance of individuals across the lifespan; 3) Personalized interventions through precision health. Across these areas, we work to address complex and difficult health problems which require transformative collaboration, translational research and innovation. We are particularly interested in making an impact on populations with significant health disparities.

Our research programs encompass basic science, discovery science, clinical trials, intervention science and measurement of health outcomes. In all cases, our faculty use interdisciplinary approaches to address the complex systems that underpin health problems. We are

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BinghamtonU Two PlantBiologist ConservationEcol

Dear Colleagues,

We have two tenure track openings at Binghamton University (SUNY) that we hope will attract applications from evolutionary biologists. Please see description below for both an Integrative Plant Biologist and a Conservation Ecologist search.

The Department of Biological Sciences at Binghamton University (SUNY: State University of New York) invites applications for two tenure-track Assistant Professor positions in the area of Integrative Plant Biology and Conservation Ecology.

The ideal Integrative Plant Biology candidate will develop an original research program that addresses fundamental questions in plant biology with an emphasis on plant biotic interactions. The successful candidate could have areas of specialization that include: genetic and physiological mechanisms of symbiosis, factors influencing shifts between mutualistic, commensal, and parasitic relationships, the impact of microbial symbionts on plant responses to biotic and/or abiotic stress, and/or biochemical communication between plants and their symbionts.

The ideal candidate in Conservation Ecology will develop an original research program that addresses fundamental questions in ecology that apply to issues surrounding anthropogenic impacts and conservation. We encourage applicants who incorporate field and experimental approaches, consider interactions between ecological and evolutionary processes, and leverage local natural systems, including freshwater ecosystems.

For both positions, priority will be given to applicants whose research program complements and strengthens interactions between established departmental strengths in Genetic and Molecular Interactions, Global Change, and Infectious Disease Biology. Successful candidates must have a Ph.D. in Biology or a related field and will join a diverse biology department with over 30 tenured/tenure-track and teaching faculty members. They will be expected to develop a vigorous, externally funded research program that contributes to our designation as an R1 institution through the training and mentorship of PhD and MS students, and will also contribute to the department's teaching mission by instructing both undergraduate and graduate courses in their area of expertise.

The University is committed to encouraging interdisciplinary collaborations on campus through initiatives and centers, including the Transdisciplinary Area of Excellence in Data Science, the Center for Integrated Watershed Studies, and the Transdisciplinary Area of Excellence in Sustainable Communities. The E. W. Heier Research and Teaching Greenhouses provide both controlled-access research space, as well as a public botanical collection for teaching, outreach, and community engagement. In addition, the university's natural areas for teaching and research cover 600 acres of undeveloped land, including the Nature Preserve and an outdoor Ecological Research Facility.

The Department of Biological Sciences is committed to equity and inclusion and is actively working to increase diversity amongst its faculty. Members of groups historically underrepresented in biology and those from non-traditional backgrounds are strongly encouraged to apply. Additionally, evidence of a commitment to advancing equity and inclusion through research, teaching, or service will be valued.

Review of applications will begin on December 1, 2022, and continue until positions are filled. Applicants must have received a Ph.D. (or equivalent) degree by the anticipated start date (August 15, 2023). Applicants must submit a cover letter, CV, teaching statement, research statement, and diversity statement, along with the names and contact information for three references.

About Binghamton University: Binghamton University is a world-class institution that unites more than 130 broadly interdisciplinary educational programs with some of the most vibrant research in the nation. Our unique character- shaped by outstanding academics, facilities, and community life - promotes extraordinary student success and faculty academic advancement. Binghamton merges rigorous academics, distinguished faculty, and state-of-the-art facilities to engage and challenge its 17,000 students. The high-achieving Binghamton student body also represents a great diversity of life experiences, from first-generation college students to international students. These classmates share a desire to shape the future through technology, insight, intellectual exploration, and community service.

Additional information: The State University of New York is an Equal Opportunity/Affirmative Action Employer. It is the policy of Binghamton University to provide for and promote equal opportunity employment, compensation, and other terms and conditions of employment without discrimination on the basis of age, race, color, religion, disability, national origin, gender identity or expression, sexual orientation, veteran or military service

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California PolyHumboldt Two EvolutionaryBiology

Cal Poly Humboldt and the Department of Biological Sciences invites applicants for an academic year tenure-track faculty position specializing in Plant Physiology.

Cal Poly Humboldt is home to one of the largest undergraduate Botany programs in the nation. Our program prides itself in a strong tradition and focus on the organismal biology of different plant, fungal, and algal groups. The ideal candidate will establish a research program that uses contemporary methods in terrestrial plant physiology, integrating that with teaching that emphasizes all aspects of plant physiology.

PROFESSIONAL QUALIFICATIONS: An earned Ph.D. or equivalent degree in plant biology, botany or related field from an accredited college or university is required at the time of appointment. ABD candidates will be considered. If ABD, degree requirements must be completed by the date of appointment.

The successful candidate must demonstrate the following required qualifications:

- Expertise in terrestrial plant physiology; - Experience with, or potential for teaching plant physiology and botany; - Experience with, or potential for developing and teaching labs which include hands-on activities and living/fresh plant material; - Experience with, or potential for establishing an active research program with external support that can be sustained at a primarily undergraduate institution; - Experience with, or potential for promoting and fostering a learning environment that is supportive of individuals from diverse backgrounds and is consistent with the department's mission; - Experience with, or potential for collaborating effectively with diverse colleagues in an interdisciplinary framework; - Experience with, or potential for supporting students from systematically marginalized communities through mentorship and use of inclusive pedagogical strategies; - Experience with, or potential for involving undergraduate and graduate students in research; and - Experience with, or potential for teaching using a variety of methodologies.

Preferred qualifications for this position include:

- Experience creating or capacity to build a research program focusing on terrestrial plant physiology, with applications in fields including, but not limited to, form-function relationships, ecophysiology, biochemical ecology; - Familiarity with, or interest in developing, operational skills for scanning and transmission electron microscopes; and - Commitment to participating in professional development opportunities that build effectiveness in areas of inclusion, intercultural communication, and advancing diversity.

APPLICATION: Qualified candidates should submit the following materials through PageUp:

- Letter of Application (2 page limit); - Curriculum Vitae; - Diversity Statement, include your understanding of the barriers facing Black, Indigenous, and other people of Color (BIPOC) in higher education and your past and/or future contributions to inclusive student success, including equitable access and outcomes through teaching and professional or public service. Applicants are encouraged to highlight any contributions they have made towards the inclusivity of students from the LGBTIQ+ community (2 page limit); - Statement of Teaching Philosophy, including how it relates to supporting students who have been historically marginalized and/or minoritized (2 page limit); - Statement of Research Interests and Experience (3 page limit); - Graduate Transcripts (unofficial copies are sufficient for initial review); and - Names and Contact Information for Three (3) Professional References.

Additional application materials may be requested at a later time.

Please direct any questions pertaining to this position, the Department of Biological Sciences, or Cal Poly Humboldt to:

Mihai Tomescu, Search Committee Chair Department of Biological Sciences Cal Poly Humboldt 1 Harpst Street Arcata, California 95521-8299 Phone: (707) 826-3229

Email: mihai@humboldt.edu APPLICATION DEADLINE: This position is open until filled. First consideration will be given to completed applications received no later than November 1, 2022. Early response is encouraged.

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https://csucareers.calstate.edu/detail.aspx?pid=-3D98342

Cal Poly Humboldt and the Department of Biological Sciences invite applicants for a tenure track faculty position specializing in Marine Phycology.

Cal Poly Humboldt has a large and growing Marine Biology program and

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CaliforniaStateU Fresno Lecturers Evolution

Multiple Lecturers Needed for Spring 2023.

Temporary Faculty Pool - Lecturer in Biology

Department Overview [Department website < http://-www.fresnostate.edu/biology/ >]

The Department of Biology at California State University, Fresno offers diversified undergraduate and graduate education that spans the breadth of modern Biology-from the inner workings of cells to the structure of whole ecosystems. The Department of Biology is a vibrant group of faculty members; excellent teachers with active and externally funded research programs. Fresno State biologists are investigating the molecular mechanisms of cellular processes, the ecology of Sierra Nevada forests and watersheds, and evolution of life in the world's oceans. The Department offers a diverse graduate and undergraduate curriculum to prepare students for an array of career paths in the biological sciences. Motivated students have a wealth of independent research opportunities with Biology faculty.

Position Summary: [course catalog link < http://-www.csufresno.edu/catalog/courses-by-department/-biology/ >]

The successful applicant may teach Biology as well as high enrollment general education courses.

We are interested in candidates who are qualified to teach course(s) and/or labs

- BIOL 101: General Ecology - BIOL 121: Medical Microbiology - BIOL 157: Immunology - BIOL 161: Plant Physiology - or other classes as needed

Instructor Responsibility: Temporary faculty members are responsible for adherence to and implementation of university and system-wide policies as directed per Academic Policy Manual 306 < http://www.fresnostate.edu/academics/facultyaffairs/-documents/apm/306.pdf >, paragraph 2. Instructors are responsible for the preparation, delivery, conducting, proctoring, and grading (as appropriate) lectures, office hours, homework assignments, quizzes, class projects, and midterm and final exams. All classes must be offered and meet as scheduled throughout the entire semester, in the mode assigned and listed in the in the schedule of classes (i.e. asynchronous, synchronous, in-person, or hybrid).

Conditional Appointment

Please be advised that an appointment is contingent upon budget and enrollment considerations and subject to order of assignment provisions in the collective bargaining agreement between California State University and California Faculty Association. These provisions state the "Order of Work," or the order in which available courses must be assigned to faculty, starting with tenure line faculty and ending with new lecturer appointees.

Appointees will be required to demonstrate eligibility to work in the United States (Fresno State is not a sponsoring agency for Temporary Faculty positions).

Salary Range - Commensurate with experience within ranks established by the CSU Salary Schedule (Lecturer AY-2358) < https://www.calstate.edu/csu-system/-careers/compensation/Pages/salary-schedule.aspx#-ClassNum=2358-Class=0-Date=1-PLYear=2022-PLNumber=2202-Recs=15 >

Anticipated Semester

The temporary faculty pool is continuously open, and positions are filled as needed, based on student enrollment and funding. This is a pool of part-time lecturers for the department to draw on as necessary. The number of positions varies from semester to semester, depending on the needs of the Department. Appointments from the pool are temporary and often made just prior to the start of the academic term. Applicants may need to be available to begin teaching on short notice. The pool will remain in place for two academic terms; those interested in remaining in the pool beyond that time must reapply.

- Fall 2022: August 17, 2022- December 22, 2022; - Spring 2023: January 16, 2023- May 20, 2023

Required Qualifications for high enrolled general education:

Education (from an accredited institution or foreign equivalent.): A Master's degree in Biology.

Experience:

1. Demonstrated commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds. 2. Successful teaching experience at the undergraduate level.

Required Qualifications for BIOL 121 or other upper-division and/or graduate level:

Education (from an accredited institution or foreign

equivalent.): A PhD in Biology-related field.

1. Demonstrated commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds. 2. Successful teaching experience at the undergraduate level and/or the

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Charleston SouthCarolina TeachingEvolution

The Citadel, Military College of South Carolina, invites applications for a tenure-track position in biology at the level of assistant professor beginning August 2023. The successful candidate will join the Swain Family School of Science and Mathematics, Department of Biology at The Citadel to primarily teach undergraduate students in introductory genetics and molecular biology with the opportunity to develop courses in their expertise. They will also be expected to periodically teach courses in the college's general education curriculum and will have the opportunity to develop evening graduate courses as desired. The typical teaching load is 12/12 contact hours, and the candidate should have prior teaching experience. Candidates should possess a Ph.D. in biology or related area and will be expected to develop a research program that will advance research opportunities for undergraduate and graduate students while complementing and collaborating with current faculty in the Department of Biology. We particularly encourage individuals whose research is integrative and broadly related to genetics (e.g. population ecology, conservation biology, systematics, bioinformatics) and can involve undergraduates.

Application review opens October 31, 2022 and continues until the position is filled

The Citadel is a fully accredited, public, comprehensive, co-educational college with a student body of about 2,300 undergraduate students who make up the South Carolina Corps of Cadets and another 1,000 students who attend The Citadel Graduate College, a civilian evening and online program that offers graduate and professional degrees as well as undergraduate programs. The department offers a BS biology major and a BS biology/secondary teaching specialization as well as MA and MAT graduate degrees. Citadel faculty may also serve as adjunct faculty for the College of Charleston's graduate programs in Marine Biology and Environmental Studies. There are also opportunities for collaborative research with state and federal agencies, including the Medical University of South Carolina. The Citadel supports faculty scholarship and professional development through internal funding for research, development, and travel. For the past twelve years, U.S. News and World Report has ranked The Citadel as the top public college in the South among masters granting institutions.

Located in the culturally rich coastal city of Charleston, SC, The Citadel is situated on the banks of the Ashley River, a tidal water tributary of Charleston Harbor. Nearby downtown Charleston is home to numerous historic sites and buildings, the nation's first natural history museum, Fort Sumter and other historic military installations, a highly acclaimed symphony, and the Riverdogs minor league baseball team. Numerous activities exist for boating, biking, surfing, and running, including the nationally popular annual Cooper River Bridge run.

The Citadel is an Equal Opportunity/Affirmative Action employer that is strongly and actively committed to diversity within its community. Women, minorities, individuals with disabilities and protected veterans are strongly encouraged to apply. All qualified applicants will receive equal consideration for employment without regard to race, color, ethnicity, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, disability, protected veteran status or any other legally protected status.

Interested candidates should direct any inquiries to Dr. Clinton Moran, chair of the search committee, and apply online at https://jobs.citadel.edu/cw/en-us/job/496255/assistant-professor-biology Dr. Clinton Moran Search Committee Chair Department of Biology The Citadel 171 Moultrie Street Charleston, SC 29409.

Email: cmoran3@citadel.edu Phone: 843-953-1093

John D. Zardus, Ph.D. Department Head & Professor of Marine Biology Department of Biology The Citadel 171 Moultrie Street Charleston, SC 29407

Office 119 Duckett Hall t 843-953-6627 f 843-953-7264 e john.zardus@citadel.edu

John Zardus <zardusj1@citadel.edu>

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ClemsonU LabManager HumanGenetics

A permanent full time staff position is available for a Laboratory Manager for the laboratories of Trudy Mackay and Robert Anholt in the Clemson University Center for Human Genetics. The Clemson Center for Human Genetics is located on Clemson's Greenwood innovation campus adjacent to the Greenwood Genetic Center in Greenwood, SC. The laboratory manager is responsible for scheduled maintenance of equipment, procurement of equipment and supplies from vendors, monitoring compliance with laboratory safety regulations, supervising students and technical personnel, and performing experiments in the broad area of Drosophila genetics, including behavioral, morphometric and molecular analyses. Previous experience in laboratory management is desirable. Experience handling Drosophila is an asset, but not necessary. The position requires excellent interpersonal and communication skills.

Please apply for Job ID 107205 at: https://jobs.clemson.edu/psc/ps/JOBS/EXT/c/HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=HRS_APP_SCHJOB_FL&Action=U Applications should include a cover letter explaining the qualifications for this position, a curriculum vitae, and the names of three references. The position is available immediately. Salary is competitive and commensurate with experience.

Please address questions to Dr. Trudy F. C. Mackay, Self Family Endowed Professor of Human Genetics and Director of the Center for Human Genetics, Clemson University, Self Regional Hall, 114 Gregor Mendel Circle, Greenwood, SC 29646 (tmackay@clemson.edu).

Clemson University is an equal opportunity employer.

TRUDY F. C. MACKAY, PhD, FRS

SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS DIRECTOR, CENTER FOR HUMAN GENETICS PROFESSOR OF GENETICS AND BIOCHEMISTRY Center for Human Genetics Clemson University 110 Self Regional Hall 114 Gregor Mendel Circle Greenwood, SC 29646 w 864-889-0522 c 919-604-6531

tmackay@clemson.edu

Trudy Frances Charlene Mackay <tmackay@clemson.edu>

DenverMuseumNatSci CuratorPosition

The Denver Museum of Nature & Science (DMNS) invites applications for the position of Assistant Curator of Earth Sciences. The successful candidate will have a field- and specimen-based research program that contributes to understanding the deep-time evolution of our planet and will have expertise in paleobotany that will augment our existing disciplinary, collections, and laboratory strengths. Ideal candidates will have field, collections, informal education, outreach, and community engagement experience. We seek a collegial individual, especially from groups traditionally underrepresented in the earth sciences, who will help the Department of Earth Sciences grow its scientific and public impact, as well as its collections as appropriate.

For more information: https://phf.tbe.taleo.net/phf01/ats/careers/v2/viewRequisition?org=DMNS&cws=38&rid=1785 Stephanie Mayer, Ph.D. Senior Instructor Department of Ecology and Evolutionary Biology 334 UCB N132 Ramaley University of Colorado Boulder, CO 80309-0334

office 303-735-1341 fax 303-492-8699

stephanie.mayer@colorado.edu

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DrexelU LabFieldTech EvolGenetics

Laboratory and Field technician at Drexel University

The Phifer-Rixey Lab at Drexel University is seeking applications for a Laboratory and Field Technician. The lab is engaged with a variety of integrative projects investigating evolutionary genetics in wild populations with opportunities for researchers with diverse interests and experience (phiferrixeylab.com). The technician will help organize and execute sampling of wild house mice as well as conduct laboratory-based research. This position

will also provide opportunities to participate in presentations at scientific meetings and outreach/education activities.

For more information about the position and to apply, visit https://careers.drexel.edu/en-us/job/499771/-laboratory-and-field-technician Start date is flexible and review of applications will begin immediately and continue until the position is filled.

Located in the heart of Philadelphia, PA, Drexel University is a world-class, comprehensive, R1 research institution and a global leader in experiential education. Committed to becoming the nation's most civically engaged university, Drexel supports engagement along three dimensions: research and academic programs that directly benefit communities, business practices that support equitable local and regional economic development, and public service by students, faculty, and staff. Our engagement is long-term, multigenerational, and fundamental to the University's mission, heritage, and future.

Megan R <megphif@gmail.com>

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EastCarolinaU InfectiousDiseaseEvolution

Evolutionary biologists are invited to apply to the following position, recently posted in Science Careers and elsewhere, review beginning Nov. 13, 2022:

The Department of Biology (https://biology.ecu.edu) at East Carolina University (https://www.ecu.edu) seeks to fill a tenure-track faculty position (9-month appointment) at the Assistant Professor level, focused in Ecology or Evolution, where the successful candidate will have expertise in Infectious Disease or Macroecology. This position is set to begin August 2023. The successful candidate will be expected to have the ability and enthusiasm to teach students effectively in the areas of Ecology, Evolutionary Biology, or Introductory Biology, as well as upper level undergraduate or graduate courses in the applicant's area of expertise. Successful candidates will become part of a collegial, interdisciplinary Biology Department and will be expected to participate fully in Departmental, College, and University activities. The ideal candidate will complement existing faculty strengths in conservation and biodiversity, evolutionary genomics, behavioral ecology and evolution, microbial ecology, coastal/estuarine ecology, quantitative ecology, science education and fisheries.

The Department of Biology is committed to enriching the lives of students, faculty, and staff by providing a diverse academic community where the exchange of ideas, knowledge, and perspectives are an active part of living and learning. The department seeks to create an environment that fosters the recruitment and retention of a diverse student body, faculty, staff, and administration and works to increase diversity and access to higher education for groups underrepresented in the sciences by building an environment that welcomes, celebrates, and promotes respect for diversity.

The full ad and application directions are here: https://jobs.sciencecareers.org/job/620585/assistant-professor/ Jeff McKinnon (he) Professor,Biology,East Carolina University https://www.mckinnonevo.com/ "McKinnon, Jeffrey" <MCKINNONJ@ecu.edu>

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Evolution EditorInChief

The Society for the Study of Evolution (SSE) seeks to fill the role of Editor in Chief (EiC) for the society's flagship journal, Evolution, which aims to publish leading research from across the field of evolutionary biology.

The EiC is expected to be an evolutionary biologist with a broad overview of the field. Main responsibilities are building on the success of the journal, fostering the journal's growth with a focus on maintaining its quality, and encouraging submissions of the best research articles in the field. The EiC will oversee and work hand in hand with a board of Handling Editors and Associate Editors, our publisher, the Digests Editor, a social media/communications editor, and a Managing Editor. We encourage applications from scientists from across career stages and from all subdisciplines related to evolutionary biology. While preferred, you do not have to be a current member of SSE to apply.

Diversity, equity, and inclusion are core values of SSE. We are committed to ensuring that all of our activities reflect those values. We strongly encourage applications from researchers identifying as members of historically marginalized groups in STEM.

The EiC is responsible for:

§Managing, recruiting, and interacting with a board of 80 dedicated Associate Editors to guarantee high quality publications;

§Contributing to policy decisions on publication strategy and quality control, in collaboration with the publisher and society leadership;

§Making final publication decisions based on scientific merit;

§Soliciting or commissioning suitable manuscripts, coordinating special Issues, and other publishing opportunities;

§Overseeing journal-related publicity through various outlets, including the production of digest articles (see https://sites.duke.edu/evodigests/);

§Serving as a full voting member of the SSE governing council; attending meetings of council and the annual SSE conference; contributing to the SSE mission, vision, and goals;

§Promoting equity, diversity, and inclusion in all aspects of the journal's operations, including submissions, reviews, production, promotion, and accessibility.

Appointments are for a 3-year term with possibility for renewal. Location is flexible as most communication occurs electronically. An honorarium of $30,000 USD is paid and attendance costs for annual council meetings and conferences are covered by the society. Academic publishing is undergoing significant changes, and we wish the candidate to be enthusiastic in support of a Society journal and its aims by pursuing opportunities to improve its popularity, impact, and strength during this period.

There is considerable independence and freedom to develop the journal. The term of the current EiC, Tracey Chapman, is ending in July 2023. Ideally the new appointee will be in place to shadow Dr. Chapman for six months before beginning their 3-year appointment in the summer of 2023.

Application materials should be sent to Laura Galloway (president@evolutionsociety.org), the Chair of the EiC selection committee, by October 31st, 2022. Your letter of application should include a brief CV (4 pages maximum) along with a narrative (˜2?¿‘3 pages) providing an explanation of why you would be interested in taking on this exciting role at this stage of your career and a brief outline of your vision for the journal over the next three years. Vision statements could include (but are not limited to) information about:

-

Ideas for maintaining/improving Evolution journal health -

Description of primary goals for 3-year term to improve journal equity and practices -

Current and future challenges facing academic publishing, in general, and society journals, in particular -

The most significant barriers to inclusion and accessibility in scientific publishing and ideas of ways to address them

Further information about the journal and society is available via the links below.

Evolution Journal: https://onlinelibrary.wiley.com/journal/15585646 Society for the Study of Evolution: http://www.evolutionsociety.org/ Interested candidates are welcome to contact anyone listed below.

Selection Committee:

Laura Galloway, SSE President and Chair of the Selection Committee: president@evolutionsociety.org

Kelly Zamudio, Member of the Selection Committee: kelly.zamudio@austin.utexas.edu

Joel McGlothlin, Member of the Selection Committee: joelmcg@vt.edu

Mike Boots, Member of the Selection Committee: mboots@berkeley.edu

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*Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org communications@evolutionsociety.org

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/˜brian/evoldir.html

GELOIFES UGroningen EvolutionaryBiology

There are several openings for tenure track positions at the level of Assistant/Associate Professor at the Groningen Institute for Evolutionary Life Sciences (GELIFES < https://www.rug.nl/research/gelifes/ >)

of the Faculty of Sciences and Engineering at the University of Groningen, the Netherlands. These positions fall under the Rosalind Franklin Fellowship Program. The Rosalind Franklin Fellowship Program < https://-www.rug.nl/about-ug/work-with-us/rff/ > aims at promoting the advancement of talented female researchers and is addressed to women in industry, academia or research institutes who aspire to become a Full Professor in a European top research university. Positions are available in the following fields of expertise:

Behavioural and cognitive neuroscience in an eco-evolutionary context Adaptive capacity in food-host-microbiome interactions Eco-evo-devo approach to plasticity in a changing climate Evolutionary medicine Ecological genomics of marine/intertidal ecosystems Ecology and evolution of sustainable coastal ecosystems Behavioural biology Detailed information on the profiles can be found here < https://-www.rug.nl/research/gelifes/organisation/vacancies >. Candidates are expected to submit their application until 27 October 11:59pm / before 28 October 2022 Dutch local time (CET) on the website < https://www.rug.nl/about-ug/work-with-us/job-opportunities/?details=00347-02S0009JEP > of the University of Groningen.

Links: Profiles: https://www.rug.nl/research/gelifes/-organisation/vacanciesTerms and conditions + application process: https://www.rug.nl/about-ug/work-with-us/job-opportunities/?details=00347-02S0009JEP Per J. Palsbï¿½ll (he/him)

Professor of Marine Evolution and Conservation Groningen Institute of Evolutionary Life Sciences University of Groningen Nijenborgh 7 9747 AG Groningen The Netherlands

Office phone: +31 50 363 9882 Mobile +31 6 5777 9495

Mail address: PO Box 11103 9700 CC Groningen The Netherlands

Adjunct scientist Center for Coastal Studies 5 Holway Avenue, Provincetown, MA 02657, U.S.A.

"How wonderful that we have met with a paradox. Now we have some hope of making progress."

As quoted in "Niels Bohr : The Man, His Science, & the World They Changed" (1966) by Ruth Moore, p. 196

Per Palsbï¿½ll <p.j.palsboll@rug.nl>

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GeorgiaTech ComputationalGenomics

The School of Biological Sciences at Georgia Institute of Technology invites applications for multiple tenure-track positions. Applicants will be considered at all ranks with priority given for exceptional candidates at the assistant or early-associate professor stage of their career. These faculty searches are for three different positions. One position is in computational genomics, a second position is in microbiology, and a third position is in cellular and molecular neuroscience.

COMPUTATIONAL GENOMICS: The School of Biological Sciences (biosci.gatech.edu) at the Georgia Institute of Technology invites applications for tenure-track faculty positions in the field of computational biology and genomics. Applicants will be considered at all ranks with priority given for exceptional candidates at the assistant or early-associate professor stage of their career. We especially encourage applications from candidates using evolutionary and statistical genetic methodologies for integrative genomic approaches to human/primate complex traits and precision health. Candidates are expected to demonstrate an exceptional commitment to the teaching and mentoring of students and to participate in our Bioinformatics Graduate Program. https://biosciences.gatech.edu/about/jobs/3407 MICROBIOLOGY: As part of continuing growth in biology, the School of Biological Sciences (biosci.gatech.edu) at the Georgia Institute of Technology invites applications for a tenure-track faculty position in microbiology. We welcome applications from individuals working in all fields of microbiology, and we especially encourage people working in the fields of microbial ecology, environmental microbiology, and in situ microbiome function. Applicants will be considered at all ranks with priority given to exceptional candidates at the assistant or early-associate professor stage. https://-biosciences.gatech.edu/about/jobs/3406 CELLULAR AND MOLECULAR NEUROSCIENCE: The School of Biological Sciences (http://biology.gatech.edu) at the Georgia Institute of Technology invites applications for a tenure-track faculty position in the field of cell/molecular neurobiology. Applicants will be considered at all ranks with priority given for exceptional candidates at the assistant or early-associate professor stage of their career. Hiring objectives in neuroscience accommodate a wide range of subfields and study models centering on

molecular and/or cellular neurobiology. We encourage applications from candidates performing fundamental studies of development, neurogenesis, plasticity, and/or behavior using cutting-edge techniques. Candidates are expected to demonstrate an exceptional commitment to the teaching and mentoring of students. https://-biosciences.gatech.edu/about/jobs/3408 Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff, students, and all other members of the Georgia Tech community, including affiliates, invitees, and guests.

Joseph Lachance Associate Professor Director, GAANN Training Grant School of Biological Sciences Georgia Institute of Technology https://popgen.gatech.edu "Lachance, Joseph L" <joseph.lachance@biology.gatech.edu>

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joseph.lachance@biology.gatech.edu

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GeorgiaTech EvolutionaryMicrobiology

As part of continuing growth in biology, the School of Biological Sciences (biosci.gatech.edu) at the Georgia Institute of Technology invites applications for a tenure-track faculty position in microbiology. We welcome applications from individuals working in all fields of microbiology, and we especially encourage people working in the fields of microbial ecology, environmental microbiology, and in situ microbiome function. Applicants will be considered at all ranks with priority given to exceptional candidates at the assistant or early-associate professor stage.

Microbiology is a recognized area of growth and research excellence on campus, catalyzed in recent years by the Center for Microbial Dynamics and Infection (CMDI, https://microdynamics.gatech.edu which combines multiple disciplines within the College of Arts and Sciences. CMDI researchers employ cutting-edge approaches in ecologically-grounded microbiological systems to address pressing challenges in environmental and human health. Georgia Tech is a top-ranked public research university, recently recognized as the only university in the US without a medical school in the top 20 in external grant funding. Georgia Tech is situated in the heart of Atlanta, a diverse and vibrant city with great economic and cultural strengths.

The Institute is a member of the University System of Georgia, the Georgia Research Alliance, and the Association of American Universities. Georgia Tech prides itself on its technology resources, collaborations, high-quality student body, and its commitment to diversity, equity, and inclusion.

Applicants should submit a letter of application, curriculum vitae, a statement of research interests, a description of teaching philosophy, and the names and contact information for at least three references. Application materials should be submitted as .PDF files via CAREERS. < https://careers.hprod.onehcm.usg.edu/-psc/careers/CAREERS/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&FOCUS=-Applicant&SiteId=03000&JobOpeningId=-248964&PostingSeq=1 > Requests for information may be directed to search co-chairs Dr. Joel Kostka and Dr. Steve Diggle at searches@biosci.gatech.edu. Review of applications will begin immediately and continue until the position is filled. An earned doctorate is required by the start of the appointment, and a background check must be completed prior to employment.

Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff,

students, and all other members of the Georgia Tech community, including affiliates, invitees, and guests.

"Baskett, Carina" <cbaskett3@gatech.edu>

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GeorgiaTech TeachingQuantBio

GEORGIA INSTITUTE OF TECHNOLOGY Biological Sciences Teaching Faculty Position

The Georgia Institute of Technology is one of the top ranked institutions in the country and ranks as one of the best places to work. The School of Biological Sciences in the College of Sciences invites applications for a full-time, non-tenure-track instructional faculty position, which is a teaching faculty and academic advisor position, beginning May or August 2023. The successful candidate will join a vibrant group of faculty with interests in a broad range of biological sciences as well as innovative pedagogy and biology education research. Candidates must have a Ph.D. in a biological science.

Ideal candidates should have experience teaching undergraduate biology courses and an interest in innovative undergraduate instruction. This position requires expertise in undergraduate-level biostatistics, and some combination of programming in biology (i.e., Python, R), cell biology, genetics, evolution, or ecology. In addition to teaching five biology courses per year and contributing to curriculum development, the successful candidate will also be responsible for academic advising of undergraduate Biology majors, as a member of a team of academic advisors in the School of Biological Sciences. The primary teaching responsibilities in this position will be in introductory and core curriculum courses for the Biology degree. The successful candidate may also teach upper-level biology and TA development courses depending on their expertise and on curricular needs.

Salary and rank will be commensurate with experience and qualifications. This position is a renewable, 12-month, non-tenure-track appointment in the Academic Professional career track. Candidates should submit an application that contains: a letter of application, a statement of teaching philosophy, a summary of teaching experiences, a sample course syllabus, a curriculum vitae, and names and contact information of three professional references. Application materials should be submitted as .PDF files via CAREERS <https%3a%2f%2fcareers.hprod.onehcm.usg.edu%2fpsc%2fcareers%2f& Review of applications will begin November 15th, 2022 and continue until the position is filled. Requests for information may be directed to search co-chairs Dr. Shana Kerr and Dr. Chrissy Spencer at searches@biosci.gatech.edu.

Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff, students, and all other members of the Georgia Tech community, including affiliates, invitees, and guests.

* Link in full: https%3a%2f%2fcareers.hprod.onehcm.usg.edu%2fpsc%2f

Annalise Paaby <apaaby@gmail.com>

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HarvardU ManagerGeneticResources

Please visit for complete job posting and application instructions: https://bit.ly/3CMJAF3 ***Please note, Harvard University will not provide visa sponsorship for this position.

Job Summary The Museum of Comparative Zoology (MCZ) at Harvard University aims to be an inclusive environment that welcomes colleagues of all backgrounds to work in a respectful and collegial environment. The Manager of Genetic Resources will interact with staff and researchers across the MCZ, students, and the public, and we seek candidates who value all these interactions.

Job-Specific Responsibilities Reports to the MCZ's Director, Collections Operations. Supervises the organization and storage of genetic resources within the MCZ

Cryogenic Collection, which includes storage of samples in liquid nitrogen; manages the incorporation and management of data associated with genetic resources (e.g., tissues, DNA/RNA samples) into MCZ-wide collection database; develop and manage standard collection-management record keeping and other administrative functions required for collecting, accessioning, and loan activities to comply with relevant laws and regulations; strategic direction and development of protocols and procedures for genetic and genomic analysis, including DNA barcoding (i.e., isolation of DNA, PCR, Sanger sequencing), whole genome sequencing, and/or next-generation sequencing (NGS) of MCZ genetic resources, as well as QC of the results, data analysis, and instrument maintenance; and responsible for compliance with all environmental, health and safety requirements, including training and documentation of facilities. The Manager of Genetic Resources will supervise and manage curatorial/technical staff associated with the Cryogenic Collection and genetic and genomic work associated with MCZ samples; may assist in preparation of grant proposals for collection or facilities improvement.

Basic Qualifications Master's degree required in biology and/or natural history museum studies. At least 7 years of curatorial experience in natural history museums, and genetic resource collection with liquid nitrogen cryogenic storage systems. Minimum of 3 years of supervisory experience.

Additional Qualifications and Skills Ph.D. preferred in biological sciences with emphasis in evolutionary genetics or genomics. Must have practical understanding of molecular biology techniques (e.g., DNA extraction, sequencing); and associated collection protocol (including loan procedures, tissue sampling, etc.); experience in laboratory/facility management; experience in relevant occupational health and safety issues; demonstrated writing, verbal and organizational skills, including presentation. Previous laboratory and facilities management experience; excellent computer skills, including database management; excellent interpersonal and communication skills required; ability to work both independently and in a busy team environment; ability to coordinate tasks with multiple constituencies.

EEO Statement We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.

Megan McHugh HR Administrator Department of Organismic and Evolutionary Biology | Museum of Comparative Zoology | Harvard University Herbaria 26 Oxford Street, Cambridge, MA 02138 | Phone: (617) 495-0813

Email: meganmchugh@fas.harvard.edu Schedule: Monday - Thursday, 8:30am-5:00pm, Friday 8:30-11:30am

PConsider the environment. Please print this email only ifnecessary.

"McHugh, Megan" <meganmchugh@fas.harvard.edu>

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HMJacksonFoundation ViralGenomics

The Henry M Jackson Foundation for the Advancement of Military Medicine (HJF) is seeking a Computational Biologist who designs and executes phylogenetic and statistical analyses to study viral evolution. Provides analytic support and collaborative assistance to investigators and personnel. Remote options are available for this opening.

This position will be in support of the Viral Genomics Section and Systems Serology Core under the direction of Dr. Morgane Rolland in the US Military HIV Research Program. The candidate will be part of a diverse team of biologists, clinicians and statisticians working on a range of questions related to vaccine and cure research focusing on HIV and other emerging infectious diseases such as Ebola, Zika or SARS-CoV-2. The Rolland Lab generates and analyzes molecular sequence data to infer evolutionary and population dynamic processes. We also profile antibody responses to various pathogens such as HIV, flaviviruses, filoviruses or coronaviruses.

Integrated analyses aim to characterize the interplay between evolutionary dynamics and the host immune pressure in the context of natural infection or following vaccination.

For more information: https://www.hivresearch.org/-lab/viral-genomics-section-systems-serology-core-laboratory https://www.hivresearch.org/our-team/-morgane-rolland-phd Responsibilities Develops new sequence analysis pipelines and procedures. Performs phylogenetic, phylogeographic and modeling studies. Conducts data???driven and hypothesis-directed genetics research. Assists with the report of experimental results for publication in technical and peer-reviewed

journals. Contributes and edits data, text, and figures in program publications. May supervise junior informatics staff.

Required Knowledge, Skills and Abilities Research experience in computational genomics or biostatistics demonstrated through publications; programming ability in (R or other statistical language). Scripting language (Perl, Python, or comparable), and (C/C++, Java or comparable language). Experience with next-generation sequencing analysis i.e. alignment, quality assessment, variant detection, statistical inference. Preferred experience with trait association analysis such as Plink, glm. Experience with pipeline development and implementation on compute clusters. Experience with power calculations and study design. Demonstrated ability to work effectively as part of a team in a deadline-driven environment. Good communication and analytical skills. Supervisory Responsibilities

Work Environment This position will take place primarily in a laboratory setting or remotely.

Education and Experience Master's Degree required, Doctoral degree preferred within Computational Biology, Bioinformatics, Biostatistics, Computer Science or related discipline Minimum of 0-2 years experience required

All HJF employees are required to be fully vaccinated against COVID-19. Proof of vaccination or an approved religious or medical accommodation will be required.

Contact: Morgane Rolland, mrolland@hivresearch.org

eric lewitus <eric.lewitus@gmail.com>

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IBE Barcelona LabTech Evolution

LAB TECHNICIAN/MANAGER POSITION AT THE EVOLUTIONARY AND FUNCTIONAL GENOMICS LAB

Research at the Evolutionary and Functional Genomics lab focuses on understanding the genetic and molecular basis of adaptation. Towards this end, we combine -omics approaches, including DNA-seq, RNA-seq, ChIP-seq and Hi-C, with detailed molecular (e.g. in vivo enhancer assays, in vivo CRISPR/Cas9 editing) and phenotypic analyses (e.g. survival analysis, stress-response analysis), to identify and characterize adaptive mutations. More details about our research are available at http://gonzalezlab.eu. We are located at the Institute of Evolutionary Biology (IBE), a joint institute of the Spanish National Research Council (CSIC) and the Pompeu Fabra University (UPF) in Barcelona city. The IBE is a member of the Barcelona Biomedical Research Park (PRBB).

Job Description The laboratory technician will be part of a team of two postdoctoral researchers and one laboratory technician, carrying out a research project that aims to understand the molecular mechanisms underlying gene-environment associations in the context of the current global change. The team will identify and characterize gene-environment associations in Drosophila melanogaster natural populations using both bioinformatic and experimental approaches. Whole genome sequences from natural populations collected mainly in Europe, US and Africa will be available at the start of the project, while other -omics datasets will be produced during the course of the project.

The laboratory technician/manager will be responsible for general wet-lab duties, including DNA/RNA extractions, PCRs, running gels, DNA cloning, as well as fly stock maintenance. The lab technician/manager will also be involved in project management duties such as contacting vendors and placing orders, as well as management of the citizen science project, associated with the research project, including communication with teachers and policy makers, and organization of meetings and events. The laboratory technician is expected to participate in lab meetings and to help train new lab members. Contact josefa.gonzalez@csic.es for further details.

REQUIREMENTS Good organizational skills and good writing and oral communication skills are required. Experience with DNA cloning is required.

Graduate studies or PhD in Evolutionary Biology, Genetics, or similar fields is desirable. Experience with directed mutagenesis experiments, CRISPR/Cas9 editing are desirable. Previous knowledge on Drosophila melanogaster and transposable elements biology is desirable.

CONTRACT DURATION AND BENEFITS - Duration: 2 years - Starting date: The position is available immediately. Starting date is negotiable. - Type of contract: Part time (18h 45'hours per week or 25 hours per week, to be discussed) - Salary Range: Depending on experience and according to CSIC salary scales. - Benefits: The candidate will join a research team that has expertise both in experimental and bioinformatics methodologies. Several projects are currently ongoing in the laboratory which allows for collabora-

tive opportunities. The Evolutionary and Functional - Genomics lab also offers extensive networking opportunities as we are co-leaders of the European Drosophila Population Genomics Consortium (https://droseu.net) that brings together 74 research labs across 28 countries, the Spanish excellence network in Adaptation - Genomics (https://adaptnet.es), the CSIC LifeHub network (https://lifehub.csic.es), and we are part of the TE hub initative (http://tehub.org/).

APPLICATION PROCESS Send your CV and a brief letter of motivation explaining qualifications and interest in the position to Dr. Josefa González at josefa.gonzalez@csic.es. Please include "Lab tech position" in your e-mail subject.

APPLICATION DEADLINE Send your application by December 9th 2022 CET.

FUNDING The position is part of the Project TED2021-130483B-100, funded by MCIN/AEI/10.13039/501100011033 and by the European Union "NextGenerationEU"/PRTR.

CONTACT josefa.gonzalez@csic.es

Josefa González | CSIC Tenured Scientist Institute of Evolutionary Biology, CSIC, UPF Passeig Marítim de la Barceloneta 37-49/ 08003 Barcelona/ Spain. www.gonzalezlab.eu |

@GonzalezLab_BCN

Co-organizer of the European Drosophila Population GenomicsConsortium(DrosEU) Science Outreach La Ciència Al Teu Món | euroscitizen.eu

melanogaster.eu

Most recent preprints/publications:TEs and long-read seqNature Communications| TEs&immune responseGenome Biology| TEs in Anopheles Genome Research

"GONZALEZ PEREZ, JOSEFA" <josefa.gonzalez@ibe.upf-csic.es>

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ImperialC London ResAssociate PlantFungalGenomics

Research Associate in Plant-Fungal Genomics at Imperial College London (jobs.ac.uk) https://-www.jobs.ac.uk/job/CUC999/research-associate-in-plant-fungal-genomics Research Associate in Plant-Fungal Genomics | Jobs | Imperial College London https://www.imperial.ac.uk/jobs/description/-NAT01293/research-associate-plant-fungal-genomics "Iskakova, Laura" <l.iskakova@imperial.ac.uk>

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IndianaU Bloomington EvolutionaryBiology

The Evolution, Ecology, and Behavior program in the Department of Biology at Indiana University Bloomington (IUB) invites applications for the newly endowed ?Olsen Chair in Evolutionary Biology', an open-rank tenured/tenure-track position at the Assistant, Associate, or Full Professor level. We welcome applicants who address fundamental evolutionary questions using integrative approaches and methods, in any system, including from organismal, genetic, and/or theoretical perspectives. Start date is flexible, from Aug 2023 to Aug 2024.

Applicants must hold a Ph.D. and have postdoctoral experience in relevant fields, with a strong record of research accomplishments. Successful candidates will be expected to develop a vigorous externally funded research program, and to participate in teaching at the undergraduate and graduate levels. The Department of Biology is committed to recruiting and retaining diverse faculty, and we strongly encourage applications from members of historically marginalized groups. We also welcome candidates who have demonstrated a commitment to working with people from groups that are underrepresented in STEM, through teaching, mentoring, or administration.

Apply online at https://indiana.peopleadmin.com/-

postings/13961, by November 1, 2022. Please address inquiries concerning the search to Jennifer Tarter at 812-856-3984 or jenjones@indiana.edu

The Evolution, Ecology, and Behavior graduate program at IUB is a strong, integrative, and collegial group, ranked in the top 10 US EEB programs in 2022: https://www.usnews.com/best-graduate-schools/top-science-schools/ecology-rankings .Bloomington is a culturally diverse, welcoming city with a vibrant arts and music scene. The city is located among the hills, lakes, and forested landscape of south-central Indiana, with ample opportunities for outdoor activities and recreation. For information about the Department of Biology and for other links to the campus and the Bloomington community, see: http://www.bio.indiana.edu . Leonie C. Moyle Professor, Evolution, Ecology & Behavior Program Associate Chair for Research & Facilities Department of Biology Indiana University, Bloomington Indiana USA 47405

lmoyle@indiana.edu

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IST Austria ResTech GenomeEvolution

We seek a Research Technician, funded by an ERC Advanced Grant, "Understanding the evolution of continuous genomes" to Nick Barton. The group studies evolutionary genetics, especially spatial structure and speciation; much of its work is based on a long-term study of a hybrid zone in the Pyrenees, between populations of snapdragons (Antirrhinum) that differ in flower colour. The Research Technician will support this project by organising fieldwork, and managing samples and data in Austria. They will have good opportunities to take relevant training, e.g. via courses offered by the Graduate School.

- Full Time (40h/w) - Klosterneuburg (Vienna), Austria - euro 2,289 gross/month (14 times a year) ' contract initially 2 years (extension possible)

Your profile - University degree in a relevant field, eg biology, physics or statistics - Enthusiasm for evolutionary biology - Strong organizational and interpersonal skills and reliability for organizing fieldwork - Proficiency in handling data - Valid driving licence - Fluent Spanish or Catalan highly desirable - Flexibility ' You will spend approx. 4-6 weeks per year in the Pyrenees

Applications should be made here: https://ist.ac.at/en/job/?title=-Research+Technician+focusing+on+field+sampling+%2F+Research+ Further information

https://bartongroup.pages.ist.ac.at/ Surendranadh, P., Arathoon, L., Field, D.L., Pickup, M., Baskett, C.A., Barton, N.H. 2022. Estimating inbreeding depression in a long-term study of snapdragons. Genetics https://academic.oup.com/genetics/article/221/3/iyac083/6594117 or contact nick.barton@ist.ac.at

Nick BARTON <nick.barton@ist.ac.at>

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KarlstadU PlantEvolEcol

Senior Lecturer in Biology with a specialisation in Ecology

Karlstad University / Faculty of Health, Science and Technology / Department of Environmental and Life Sciences

Sapere Aude dare to be wise is our motto. Our students and employees develop knowledge and expertise that enrich both people and the world around them. Our academic environment is characterised by curiosity, courage and perseverance. Gender equality, diversity and a democratic approach form the foundation of our organisation. We are located in an active and scenic region and we promote sustainable development in close collaboration with the wider society.

Karlstad University has a total of approximately 1,400 employees and 19,000 students spread across two inspiring campus environments in Karlstad and Arvika.

More information at:kau.se/en/work-with-us

Description The subject of Biology has a staff of around 40 people and belongs to the Department of Environmental and Life Sciences within the Faculty of Health, Science and Technology. The subject of Biology offers a Degree of Bachelor, Degree of Master and Master of Science in Secondary Education in Biology and Science. Biology also offers doctoral studies and currently has 18 doctoral students enrolled. Our main research areas are ecology and biology education. Research in biology education is conducted within the research centre SMEER (Science, Mathematics and Engineering Educa-

tion Research,kau.se/en/smeer). The River Ecology and Management Research Group (RivEM) conducts fundamental and applied research on lakes and watercourses, as well as their surrounding areas. RivEM is an integral part of biology's research and is primarily focused on sustainable use of natural resources, in order to solve environmental problems in ways that are mutually beneficial to human society and nature. The research conducted at RivEM is related to such research areas as the effects of hydropower on connectivity, interactions between aquatic and terrestrial environments, food webs, winter ecology in relation to global climate change, landscape ecology, invasive species, ecological modelling, endangered fish and invertebrate species, environmental protection and socio-ecological research (kau.se/en/nrrv). Many research projects are carried out in collaboration with stakeholders from industry, government agencies, professional organisations and land owners. More information is available on our website:kau.se/en/biology. We are now accepting applications for a senior lectureship in biology with a specialisation in ecology, focusing on plants and vegetation within a field that complements the research conducted within RivEM.

Duties Duties include teaching and research. Teaching duties primarily comprise teaching bachelor's courses in Biology, as well as relevant master's courses such as Conservation Biology, Evolutionary Biology and Landscape Ecology. Additional teaching assignments, such as courses in teacher education programmes or the Biology Programme, may also be required. You are also expected to conduct research that complements the current research being conducted at the subject, and supervise doctoral students in your field. We expect a senior lecturer to initiate new externally funded research projects, in collaboration with colleagues in the research group RivEM. There are also opportunities to collaborate with the research group SMEER, focused in subject-specific education research. You are expected to collaborate with the wider community for a mutual exchange, as well as work towards ensuring that the knowledge and expertise available at the university is of benefit to society. To contribute to a positive working environment and help further the subject's activities, we expect you to be a present and active part of the day-to-day operations and workplace community.

Qualification requirements To be eligible for the position of senior lecturer in Biology, applicants are required to have demonstrated teaching expertise and hold a PhD in Biology with a specialisation in Ecology, or equivalent academic qualifications or professional expertise deemed relevant to the nature of the position and the duties included therein. Pursuant to Karlstad University's Appointments Procedure, teachers must have the personal qualities required to perform the required duties, as well as a completed course in higher education pedagogy.

Candidates who have not completed a course in higher education pedagogy may still be hired, provided that they use the time alloted to continual professional development to complete the required course within two years of employment, or that they apply for validation of prior learning. For other eligibility requirements, refer to Karlstad University's Appointments Procedure, available at our webpage:https://www.kau.se/en/work-us/work/vacancies . Assessment criteria

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LIB Hamburg SystematicZoology

W3 Professorship for Systematic Zoology

Responsibilities:

We are seeking an internationally renowned scientist with integrative and strategic thinking. The post holder is also expected to serve as head of the Centre for Taxonomy and Morphology. The successful candidate will also be expected to further develop taxonomy research in all aspects as a bridge between basic and applied biodiversity research at a level of international excellence. The advertised position will be located at the LIB but also academically integrated in the Department of Biology at UniversitätHamburg. Candidates should demonstrate scientific excellence and expertise in one or more of the following research areas:

highly innovative taxonomic and systematic research approaches, with the potential to collaborate with applied aspects of biodiversity research;collection-based approaches to phenotypic evolution and change, preferably in broad taxonomic groups or with a broad scope;and/or quantitative and computational analyses.

They are also expected to have experience in collection-based research, conceptual thinking, and international networking and will also be expected to actively participate in the further development of the Centre for Taxonomy and Morphology and the LIB.

Experience in collection management is desired. The professorship will serve as an important link between

the LIB and the Department of Biology at UniversitätHamburg and strengthen the aforementioned research areas of UniversitätHamburg and of the Department of Biology. Participation in additional research projects and with other departments is desired. Teaching will be carried out in the bachelor's and master's degree programs in biology, with 2 teaching hours being dedicated to the area of organismic zoology.

This is a tenured professorship. The academic search follows the leave-of-absence model (Jülich model) for joint appointments. The successful candidate will be employed as a member of the UniversitätHamburg. The tenure requirements at the LIB are based on the standards for academic searches for academic leadership positions in the Leibniz Association and Section36 of the North Rhine-Westphalian higher education act. The professorship will be located at the LIB in Hamburg.

The successful candidate is expected to take part in the University's core research area Climate, Earth and Environment.

In their application, applicants are expected to indicate to which of the University's core research areas, emerging fields, or profile initiatives (https://-www.uni-hamburg.de/en/forschung/forschungsprofil/-forschungsschwerpunkte.html) their research can best be assigned. Duties include working in one or more of the core research areas, emerging fields, or profile initiatives.

Section12 subsection7 sentence2 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) applies.

Requirements:

Academic qualifications and additional requirements as specified in Section 15 HmbHG.

Additional Criteria:

Applicants are expected to have international research experience as well as a successful track record in acquiring external funding and carrying out externally funded projects.

The University places particular emphasis on the quality of teaching and therefore requests that applicants provide details of their teaching experience and objectives.

Non-German-speaking post holders are expected to acquire the language skills necessary to teach in German (Level C1 of the Common European Framework of Reference for Languages) within 2years of commencing employment.

Following hearings to assess knowledge and expertise, management and human resources skills will be evaluated by an assessment center.

As a University of Excellence, UniversitätHamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Leibniz Institute for the Analysis of Biodiversity Change (LIB) is an internationally active research institute, foundation (under public law), and member of the Leibniz Association. The LIB contributes to taxonomic and molecular biodiversity research and conservation by documenting and analyzing evolutionary and ecological change. This focus means the LIB fits well with the UniversitätHamburg core research area Climate, Earth and Environment and the Department of Biology research area Ecology and Biological Resources with its focus on biota in the climate system.

The Centre for Taxonomy and Morphology brings together the 2 LIB locations in Hamburg and Bonn. The LIB is internationally renowned and has excellent

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LouisianaStateU Three EvolutionaryBiology

Louisiana State University (LSU) is hiring 3 Assistant Professors in the Department of Biological Sciences (Evolution, ecology or any field of biology) as part of a DEI cluster hire.

As part of a college-wide effort to hire leading research faculty with astrong commitment to research, teaching, and service that will promote thesuccess of underrepresented minority students and address the needs of ourdiverse state, the Department of Biological Sciences at Louisiana State University announces a search for three assistant professors across all areas of Biology. All three will be supported as a cohort and individually to develop first-class research, teaching, and mentorship programs. We will also consider applicants above the Assistant level to be hired as Associate or Full Professors, based on experience.

In the Department of Biological Sciences, we value diversity, equity, and inclusion. We recognize the intrinsic relationship between diversity and excellence, and we strive to support equitable access to opportunities for learning and development for all students. In addition to a strong record of research and teaching excellence, the successful candidates will demonstrate an understanding of the barriers preventing full participation of underrepresented minorities in highereducation. The successful candidates will also have track records or future plans of research mentorship and/orservice addressing the needs of underrepresented minorities and a clearly articulated vision for how their work at LSU will contribute to the University's mission of serving the needs of our diverse state and student population. Applicants' commitment to activities related to diversity, equal opportunity, and inclusion as well astheir plans for future engagement will be a significant part of the overall evaluation of the candidate's qualifications for a faculty appointment.

Duties include: 50% Develop and maintain an independent and extramurally funded research program.

50% Teach undergraduate and/or graduate level courses in a biological sciences discipline, and direct/supervise graduate students. Participate in service activities pertaining to the mission of the Department, and the advancement of the profession.

Minimum Qualifications: PhD awarded by time of hire, where the topic of the work is in some area ofbiological sciences with demonstrated expertise in at least one area of biology.

Additional Qualifications Desired: -Excellence in research that complements or extends existing research strengths in the department and the potential to attract extramural funding.

-Evidence of commitment to or strong potential for the advancement of diversity, equity, and inclusion for underrepresented minority students and groups (African-American/Black, Latino (a) Chicano (A)/Hispanic, and Native American), and how this commitment integrates with teaching, research and service.

-Commitment to excellence in teaching. Must demonstrate potential or evidence of ability to perform well at both graduate and undergraduate levels and to develop and teach undergraduate and graduate courses or seminars.

This position is marked as Essential Personnel and may be required to report to campus in times of emergency and/or closure per Policy Statement 18 This position has an obligation to assist students in the acquisition ofnecessary services in accordance with FERPA.

Special Instructions: Please submit the following in a single pdf in this order. Your cover letter, Diversity, Equity and Inclusion statement which demonstrates an understanding of the barriers preventing full participation of underrepresented minorities in higher education, including an understanding gained through lived experience. This statement should also describe future plans for activities relatedto diversity, equal opportunity, and inclusion, CV, Statements of researchand teaching interests, up to three representative publications, three references who can provide letters of recommendation at a future date. An official transcript showing highest degree obtained will be needed prior to hire and may be attached here. Review of applications will begin November 15, 2022. We are planning to hire 3 people from this advertisement.

Posting Date: September 27, 2022 Closing Date (Open Until Filled):

Prosanta Chakrabarty, Ph.D(he/him) George H. Lowery Professor | Curator of Fishes Department of Biological Sciences | Museum of Natural Science Louisiana State University 119 Foster Hall, Baton Rouge, LA 70803 office 225-578-3079 |prosanta@lsu.edu www.prosanta.org Prosanta Chakrabarty <prosanta@lsu.edu>

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MichiganStateU EvolutionaryGeneticsTeaching

A full-time, fixed-term position teaching genetics is available at Michigan State University. Please see the full job posting below. Job ad

Integrative Biology, Fixed Term, Instructor/Assistant Professor

Position Description

The Department of Integrative Biology at Michigan State University welcomes applications for a full-time, 9-month, fixed-term instructor position beginning January 1, 2023. The initial appointment is for 1 year with potential for extension based on satisfactory performance and continued funding. The primary responsibility of the successful candidate will be to join a community of committed faculty and graduate teaching assistants to teach two class meetings and three recitation sections per week of Integrative Biology 341, Fundamental

Genetics during the fall and spring semesters (67%) The second major responsibility is to work with other faculty on curricular development for the course with the goal of improving student learning and success in the course (33%). Fundamental Genetics is a large service course taken by students in multiple majors and programs across the University. The course serves to provide knowledge of prokaryotic and eukaryotic transmission biology, population and evolutionary genetics, and applications to modern biotechnologies, through a student-driven methodology that centers on problem-solving to master critical skills. It is expected that the successful candidate will contribute to the collaborative efforts with multiple faculty members who teach this course and are engaged in efforts to improve undergraduate STEM education at MSU.

Required qualifications: Successful candidates will have a Ph.D. (ABD considered) in genetics or a related field and undergraduate teaching experience. The candidate must have a strong commitment to student success and creating an inclusive learning environment for a diverse group of students. The candidate must have experience using student-centered teaching methods such as active and inquiry-based learning. The candidate must have experience with assessment of student learning. The candidate must also be committed to continued professional development and have excellent collaboration/interpersonal communication skills.

Desired qualifications: Preferred qualifications include upper-level undergraduate teaching experience with the use of instructional technology and on-line learning. Discipline-based Education Research and/or Scholarship of Teaching of Learning experience as well as experience working with large classes would be valuable.

Applicants should submit the following information all in a single pdf:

- a Curriculum Vitae - a Cover Letter that specifically addresses your background in genetics, teaching experience and philosophy, and professional development activities /trainings (not to exceed 2 pages) - a DEI Statement; a 1 page summary of how you have, or plan to, support diversity, equity, and inclusion initiatives in your teaching - an Assessment Example; sample of a genetics assessment with the learning objective associated with the assessment (not to exceed 1 page; examples could include a sample quiz/exam question, homework, or in-class learning activity) - a Description of Student-centered Teaching Methods and Collaborative Work; 1) how you have used student-centered teaching methods and 2) previous collaborative work, describing your role and how you worked successfully with others (not to exceed 2 pages) - Contact Information for three professional references; letters will be requested during the screening process.

Please direct questions regarding the position to Terri McElhinny, Associate Professor of Integrative Biology and Chair of the Search Committee (mcelhinn@msu.edu).

To be hired at the rank of "Instructor" you must have progressed to at least ABD status. To be hired at the rank of Assistant Professor fixed-term, you must have earned a Ph.D. prior to beginning the appointment.

Jeanette McGuire <mcguire.jeanette@gmail.com>

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MichiganStateU QuantitativeEvolution

We are especially interested in quantitative evolutionary biology related to phylogenetic comparative methods, evolutionary genomics, molecular evolution, or ecoevolutionary processes.

The Department of Integrative Biology (IBIO) at Michigan State University (MSU) is seeking applications for a tenure-system Assistant Professor faculty position in quantitative ecology or evolutionary biology, broadly interpreted (https://integrativebiology.natsci.msu.edu). The successful applicant will have a PhD in a relevant field (with postdoctoral experience preferred) and be able to demonstrate expertise and leadership in cutting-edge computational and quantitative research in ecology or evolutionary biology (e.g., statistical methods development, novel applications of cutting edge quantitative methods, or other advanced modeling of natural systems), and evidence of a potential to establish an externally funded research program and to make significant contributions to graduate and undergraduate teaching and mentoring. The search is open to researchers working in any taxonomic space and at any level of biological organization. The successful candidate will actively participate in the interdisciplinary graduate program in Ecology, Evolution, and Behavior (https://eeb.msu.edu) as a core faculty member, and contribute to graduate level teaching in the EEB program's newly revamped quantitative course sequence.

IBIO has research strengths in ecology, evolution, be-

havior, and organismal biology, as well as a strong undergraduate teaching mission and active involvement in multiple interdepartmental graduate programs, including EEB. With >100 graduate students and 70 core faculty, EEB at MSU is one of the most successful graduate programs in the university and is highly ranked nationally and internationally. The EEB core curriculum provides students with broad training encompassing experimental, field, and theoretical approaches to the study of ecology, evolutionary biology, and behavior, as well as the computational, mathematical, and statistical methods used in these fields.

MSU is an affirmative action, equal opportunity employer, committed to achieving excellence through a diverse workforce and an inclusive culture that encourages all people to reach their full potential. We actively encourage applications from women, persons of color, veterans, persons with disabilities and individuals who can contribute to the intellectual diversity and cultural richness at MSU. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions (online at https://careers.msu.edu/en-us/job/512493/assistant-professortenure-system; Job number 818541) as a single, concatenated PDF document that includes:

1) A cover letter that frames the application in context of this ad and the Department of Integrative Biology and Graduate Program in EEB at Michigan State University.

2) A curriculum vitae, including a list of publications, accepted proposals for funding or other resources, contributed or invited presentations, teaching and mentoring experiences, leadership positions, contributions to the academic community, and public outreach efforts. Other professional information may also be included, as the applicant sees fit.

3) A summary of research focus including the relevance of the research, research accomplishments, and future research plans. This statement should also describe past experiences with and future plans to promote diversity, equity, and inclusion in research (e.g., through grant-funded research, publications, etc.).

4) A description of teaching and mentoring philosophy, experiences, goals, and plans to address these goals. This statement should also describe past experiences with and future plans to promote diversity, equity, and inclusion in teaching and mentoring (e.g., through mentoring, pedagogy, etc.).

5) The names and email contact information for three individuals who can provide reference letters. References will be contacted for candidates selected for a short list of candidates.

6) A copy of one lead-author publication that the applicant would most like the search committee to read (can be included as a separate file, if combining is problematic).

Please title each section of your application PDF.

Applications will be accepted until the position is filled. Review of applications will begin on 15 November 2022.

Questions can be addressed to the Search Committee c/o Fred Dyer (Search Committee Chair): fcdyer@msu.edu

"Bronikowski, Anne" <abroniko@msu.edu>

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

NewJerseyInstTech ComparativeBiology

Hello, I am writing to share a job listing that may be of interest to Evoldir readers. The listing is below:

Assistant Professor, Comparative Biology, New Jersey Institute of Technology

The New Jersey Institute of Technology (NJIT), a public R1 research institution located in Newark, New Jersey, invites applications for a 9-month, tenure-track faculty appointment in the Department ofBiological Sciences. We seek an active researcher and educator who uses cell and molecular biology tools to study development, evolution,ecology, or neurobiology. Preferred candidates combine a strong background in cell and molecular biology with an interest in importantquestions in comparative and systems biology. Applicants will be expected to maintain an active, funded research program, supervise graduateand undergraduate students, teach undergraduate and graduate courses mainly in their area of expertise, and contribute to the overall activitiesand growth of the Department.

Essential Functions: - Develop an externally recognized research program using molecular biological tools in the

field of evolutionary and developmental biology. - Obtain external funding for research. - Advise and mentor undergraduate and graduate students. - Develop and teach undergraduate and graduate courses in areas of expertise. - Contribute to successful functioning of the department and university via service on committees and in other capacities.

Application Deadline: November 25, 2022

Visit https://njit.csod.com/ux/ats/careersite/1/home/requisition/4486?c=njitfor more information and to apply.

Dr. Phil Barden Assistant Professor Dept of Biological Sciences New Jersey Institute of Technology Central King Building 337 100 Summit St - Newark, NJ 07102 USA phone: +1 973 596 5863 website:bardenlab.org twitter: @haidomyrmex

Phillip Barden <barden@njit.edu>

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NorthCarolinaStateU FungalPopGenetics

We are looking for a population geneticist with experience with fungi and oomycetes. https://jobs.ncsu.edu/postings/172923 Dr. Jean Beagle Ristaino William Neal Reynolds Distinguished Professor Director, Emerging Plant Disease and Global Food Security Cluster Dept Entomology & Plant Pathology Campus Box 7825 840 Oval Drive, Plant Sciences Building NC State University, Raleigh, NC 27606

office 919 515-3257 lab 919 515-6808 cell919 412-7314 http://ristainolab.cals.ncsu.edu/ Twitter @Jristaino1

Jean Ristaino <jbr@ncsu.edu>

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NortheasternU MarineEnvironmentalEvolution

The College of Science at Northeastern University invites applications for positions at all ranks (Assistant Professor, Associate Professor, or Professor), beginning in academic year 2023-2024 in the field of aquaculture. We seek the broad expertise necessary to enhance the security and sustainability of coastal food production through aquaculture, including but not limited to: fisheries science; sensitivity of marine species to climate change; ecological and evolutionary genomics; social, economic and cognitive barriers to the adoption of aquaculture; and innovative financing and engineering solutions to sustainable aquaculture productivity.

More information at:

https://northeastern.wd1.myworkdayjobs.com/en-US/careers/job/Open-Rank–Assistant-Associate-Professor—Sustainable-Blue-Economies_R109729 K. E. Lotterhos, PhD (she/hers) Associate Professor Department of Marine and Environmental Sciences Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908 I respond to email mid-day on weekdays

"Lotterhos, Katie" <k.lotterhos@northeastern.edu>

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NorthernIllinoisU ComputationalBiology

The Department of Biological Sciences at Northern Illinois University anticipates hiring a tenure track Assistant Professor of Biology. We seek candidates from any biological discipline that heavily use computational or bioinformatics tools. Candidates whose research complements the department's existing strengths are encouraged to apply. The ideal candidate is expected to establish a robust, externally funded research program that involves graduate and undergraduate student researchers. The ideal candidate is also expected to contribute to graduate and undergraduate teaching of

an upper-level course in bioinformatics, statistics, or biology- related computer programming. Experience working with diverse populations of students as well as evidence of inclusive and engaging teaching practices are highly desirable.

Additional responsibilities include mentoring and supporting students, training graduate and undergraduate students in biological research, and service to the department, college, university, and community. For details about the department, please visit https://clas.niu.edu/-clas/biology/ .In the same hiring cycle, the department anticipates hiring an additional tenure track assistant professor. For more information, see position 6676 < https://employment.niu.edu/postings/67315 >.

Northern Illinois and the Biological Sciences Department value diversity, equity, and inclusion (DEI). We expect candidates to equally value these principles and to serve as active participants in working toward DEI initiatives.

Essential Duties and Responsibilities: - Teaching an undergraduate course in bioinformatics, statistics, or another area of expertise; - Creating a productive, externally funded research program that involves graduate and undergraduate students; - Mentoring and supporting students; - Training graduate and undergraduate students in biological research, and service to the department, college, university, and community; - Collaborative service at the department, college, and university levels and with the community.

Minimum Required Qualifications: - Doctorate in biology, mathematical biology, or related field; - Demonstrated research and publication record in peer-reviewed scientific journals; - Evidence of securing or applying for external funding.

Additional Requirements: - Potential for supervising graduate and undergraduate research students - Ability to teach undergraduate and graduate courses for biology majors and non-majors - Ability to mentor and support students; - Ability to train graduate and undergraduate students in biological research, and service to the department, college, university, and community.

Preferred Qualifications: - Postdoctoral experience or additional expertise in area of research; - Evidence of teaching experience in classroom or laboratory settings; - Ability to teach, mentor, and support students from varied backgrounds.

Salary: Salary is negotiable and commensurate with experience and qualifications; position includes a robust benefits package.

Northern Illinois University is a public research university located in DeKalb, Illinois, an affordable and growing community that is a commutable distance from Chicago and Rockford metropolitan areas. Our 16,000+ student body is diverse, with many first-generation and racially and culturally diverse students. NIU prides itself on student-centered approaches to teaching and research, and has social mobility, equity, and inclusion at the heart of its mission. Recently, NIU was nationally recognized as a top college for diversity < https://niutoday.info/2022/09/12/recognized-as-top-college-for-diversity-niu-repeats-national-award-win/ > and LGBTQ+ < https://niutoday.info/2022/09/-14/niu-named-to-campus-prides-2022-best-of-the-best-list-for-lgbtq-students/ > students, and has been named one of the Great Colleges to Work For < https://niutoday.info/2022/09/14/niu-named-to-great-colleges-to-work-for-list-for-second-straight-year/ > two years in a row. Biological Sciences is one of the largest majors on campus and our department has faculty and students pursuing dynamic research agendas including biomedical, microbial, pedagogical, developmental, evolutionary, and ecological questions. Our research programs utilize nearby, world-class resources like Nachusa Grasslands, Fermi National Accelerator Lab, Argonne National Lab and the Chicago Proton Center. DeKalb is now home to a new Meta strategic interconnected

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OkinawaInst EvolutionaryBiology

OIST.Japan.Faculty.LifeSciences

The Okinawa Institute of Science and Technology (www.oist.jp) is a dynamic and growing graduate university in Japan. We are inviting applications for tenure-track and tenured faculty positions.

Applications are invited in Life Sciences

OIST is actively seeking applications from women and underrepresented groups.

Successful candidates will have an opportunity to join our vibrant, collaborative, interdisciplinary research community. They will: - Establish and run an active

independent Research Unit with generous internal funding, including funds for several research staff - Supervise and mentor PhD students, develop and teach graduate courses, and actively contribute to university services

- Receive access to cutting-edge core research facilities, including imaging, sequencing, instrumentation, nanofabrication, and high- performance computing, with dedicated support staff - Enjoy a competitive remuneration package with additional benefits, such as housing allowance

The starting date is negotiable.

Application deadline: October 17, 2022 at 12:59 PM JST

Visit https://groups.oist.jp/facultypositions for more information and to apply online.

OIST offers a world-class research environment and opportunities for cross-disciplinary research. We have no departments, and we currently have 89 Research Units. English is the official language of the university, and the research community is fully international, with more than 50 countries represented. The campus is located on 85 hectares of protected forestland overlooking beautiful shorelines and coral reefs in subtropical Okinawa, Japan.

We are an equal opportunity educator and employer and are committed to enhancing and supporting diversity, equity, and inclusion in all aspects of the university community. As such, we are actively working to increase the diversity of our faculty, students, and staff, and cultivating an environment where all members can thrive and are valued. We have implemented policies to engender and cultivate a diverse, inclusive, and family-friendly culture. These include supporting dual career couples, gender neutral facilities, pro-active equity-focused policies including "stop-the-clock" options, an on-site bilingual childcare facility and after school programs, an on-site health center, and relocation and post-arrival support.

Inquiries:

Dr. Milind Purohit, Dean of Faculty Affairs faculty-recruiting@oist.jp

Kiyomi Cooley (she/her) Faculty Recruiting Assistant Faculty Affairs Office Okinawa Institute of Science and Technology

1919-1 Tancha,Onna-son Kunigami-gun Okinawa, Japan 9040495

Kiyomi Cooley <kiyomi.cooley@oist.jp>

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OklahomaStateU AnthropogenicEvolution ProgramCoordinator

We seek a program coordinator to support a new post-baccalaureate program at Oklahoma State University in Stillwater, OK. Dr. Michael Reichert and Dr. Elizabeth McCullagh have recently received funding from the National Science Foundation (NSF) to create a research-intensive program for postbaccalaureates at Oklahoma State University. This program is focused on research involving anthropogenic impacts on biological processes (including evolution).

Mitigating the extensive and dramatic effects of human activities on biological processes is one of the major challenges facing the STEM workforce in the 21st century. Therefore, training and capacity building in research on anthropogenic effects is critical for society and increasing diversity in these fields is essential both for increasing opportunities for participation, and to provide the diverse set of approaches and experiences necessary to address these problems. The objective of this proposal is to build a diverse network of scientists to provide mentorship and training in cutting-edge research on anthropogenic effects on biological processes. Our specific goals are to foster a scientific community with the focus on broadening participation and developing a sense of belonging in the sciences, and to build the capacity to develop solutions for one of the most pressing scientific challenges of our time.

We will address these goals through a structured mentorship program for post-baccalaureate scientists from underrepresented groups, hosted at Oklahoma State University, which will be supported by faculty members Dr. Michael Reichert, Dr. Elizabeth McCullagh, and the project coordinator.

For further details and to apply go to: https://okstate.csod.com/ats/careersite/-JobDetails.aspx?site=8&id=12613 For full consideration, please provide a cover letter, resume, and list of 3 professional references by October 23, 2022. However, applications will continue to be reviewed until the position is filled.

Please contact Michael Reichert, michael.reichert@okstate.edu with any questions.

"Reichert, Michael" <michael.reichert@okstate.edu>

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OklahomaStateU Integrative Physiology

We are searching in all areas of physiology, including evolutionary physiology.

Official ad below:

Location Stillwater, OK Open Date Oct 18, 2022

Deadline Nov 28, 2022 at 11:59 PM Eastern Time Description The Department of Integrative Biology at Oklahoma State University invites applications for two tenure-track Assistant Professorships in integrative physiology. Applicants should have a Ph.D. and a record of excellence in research and scholarship. We welcome candidates whose research encompasses any area of integrative physiology.

The Department of Integrative Biology comprises 29 faculty, numerous active adjunct and emeritus members, 61 graduate students, and over 900 undergraduates majoring in biology, zoology, and physiology. The majority of these undergraduates are in pre-health or pre-veterinary options. Members of the department strive for an inclusive atmosphere that fosters and provides support for success and a welcoming place to work. Our research is supported by external grants, and the successful applicant will be expected to establish an extramurally funded research program. Teaching loads generally include one graduate or undergraduate course per semester. For more information about our department, please see our website (https://-integrativebiology.okstate.edu).

Oklahoma State University is a Carnegie Tier 1 research university with excellent facilities for research and instruction, including a high-performance computing center. Because of its mid-continent location that spans a broad expanse of habitats, from deciduous forest to semi-arid grasslands, Oklahoma offers a rich tapestry of prairie and forest ecosystems that support an exceptional level of biodiversity.

The University is located in Stillwater, Oklahoma, rated the friendliest college town in America. The town offers an exceptionally high quality of life-a thriving college community with a low cost of living. Stillwater is well served by a local airport, providing convenient worldwide connections through Dallas-Fort Worth. Two major metropolitan areas (Tulsa and Oklahoma City) offer numerous shopping, dining, and cultural activities within a short drive from Stillwater.

Candidates from groups underrepresented in science and academia are especially encouraged to apply.

Qualifications Applicants should have a Ph.D. and a record of excellence in research and scholarship.

Application Instructions To apply, please submit the following items via Interfolio (http://apply.interfolio.com/-115541): cover letter; curriculum vita; separate research, teaching, and diversity statements; and contact information for three professional references. Application review will begin November 28 with employment starting August 2023 or as negotiated.

Equal Employment Opportunity Statement Oklahoma State University, as an equal opportunity employer, complies with all applicable federal and state laws regarding non-discrimination and affirmative action. Oklahoma State University is committed to a policy of equal opportunity for all individuals and does not discriminate based on race, religion, age, sex, color, national origin, marital status, sexual orientation, gender identity/expression, disability, or veteran status with regard to employment, educational programs and activities, and/or admissions. For more information, visit https:///eeo.okstate.edu . "Reichert, Michael" <michael.reichert@okstate.edu>

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RochesterInstTech EvolutionMicrobiologyGenomics

Rochester Institute of Technology - Assistant Professor

The Thomas H. Gosnell School of Life Sciences (GSoLS) at the Rochester Institute of Technology (RIT) invites applications for up to two tenure-track Assistant Professors to begin in August of 2023. We encourage applications from candidates with research and teaching expertise in evolutionary biology, environmental microbiology, microbial ecology, or host-defense and resistance mechanisms. Exceptional candidates from related fields who bring unique expertise and perspectives will be considered. The successful candidate will employ modern research techniques and contribute to our ongoing strategic initiatives, including genomics and/or earth &

environmental systems. Our new colleague is expected to direct the research of students at the undergraduate and master's levels, teach upper and lower-level courses, contribute to curricular improvement, including a future PhD program in Bioinformatics and Computational Biology, and perform school, college, university, and professional service. Excellence in teaching at the undergraduate and graduate levels is expected, and those using innovative pedagogical approaches are specifically encouraged to apply.

Required minimum qualifications include: A PhD and postdoctoral training (or equivalent professional experience); a strong track record of publication; evidence of grant-writing skills; a commitment to including graduate and undergraduate students in research; commitment to DEI efforts at the school, college and institute levels.

All candidates should submit the application documentation by December 1, 2022. Please contact Dr. Gary Skuse (grssbi@rit.edu), Chair of Search Committee if you have any questions.

Department/College Description

The Thomas H. Gosnell School of Life Sciences (GSoLS) comprises 27 full-time Faculty, 6 full-time staff and approximately 300 full-time students across our undergraduate majors of Biology, Biotechnology and Molecular Bioscience, Bioinformatics and Computational Biology, and Environmental Science; and approximately 50 graduate students in our two Masters programs in Bioinformatics and Environmental Science. GSoLS is known for high-quality education, innovative approaches to teaching and learning, and excellent research and expertise in target areas including bioinformatics, computational biology, earth system and environmental science, biotechnology and STEM education.

The RIT College of Science offers 13 undergraduate programs and 14 graduate programs including 4 PhD and 17 BS/MS programs. The College has established an inclusive community that embraces social justice and equity among our education, research, and the scientific community at large. Our students benefit from the intersection of science and technology at RIT, including access and training with state-of-the-art laboratory equipment and facilities starting in their first year at RIT. As one of the top external grant-funded colleges on campus, the College of Science gives students unrivaled opportunities to engage in real-world research with supportive faculty mentors. Our alumni stand out from their peers at Cornell, MIT, Harvard, Regeneron, St. Jude's Children's Research Hospital, and the Cleveland Clinic, just to name a few.

RIT is a national leader in professional and career-oriented education. Talented, ambitious, and creative students of all cultures and backgrounds from all 50 states and more than 100 countries have chosen to attend RIT. Founded in 1829, Rochester Institute of Technology is a privately endowed, coeducational university with nine colleges emphasizing career education and experiential learning. With approximately 16,700 undergraduates and 3,100 graduate students, RIT is one of the largest private universities in the nation. RIT offers a rich array of degree programs in engineering, science, business, and the arts, and is home to the National Technical Institute for the Deaf.

RIT was recently named one of the top 100 universities in the nation, having jumped 10 places in the "National Universities" category, according to U.S. News & World Report rankings for its 2018 edition. In 2017, RIT moved into the top "National Universities" category due to its rapid increase in research and Ph.D. graduates. In 2018, RIT ranked 97th out of 311 universities in this prestigious category.

RIT has been honored by The Chronicle of Higher Education as one of the "Great Colleges to Work For" for four years. RIT is a National Science Foundation ADVANCE Institutional Transformation site and is responsive to the needs of dual-career couples.

Rochester, situated between Lake Ontario and the Finger Lakes region, is the 51st largest metro area in the United States and the third largest city New York State. The Greater Rochester region, which is home to nearly 1.1 million people, is rich in cultural and ethnic diversity, with a population comprised of approximately 18% African and Latin Americans

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SanDiegoStateU UrbanEvolution

The Department of Biology at San Diego State University seeks to hire a tenure-track Assistant Professor in the area of Urban Evolutionary Biology who investigates topics such as effects of anthropogenic and environmental changes on plasticity, novel adaptations, range-shifts or dietary/predator-prey interactions. We value applicants who use integrative genomic, pheno-

typic, computational, or behavioral studies to address fundamental questions about the evolutionary impacts of urbanization in flora/fauna. Applicants who conduct binational studies and/or collections-based research are particularly encouraged to apply.

Successful candidates will have a Ph.D. in Evolutionary Biology or a related field, postdoctoral research experience or equivalent, and a record of research accomplishments, including publications and potential for extramural support. Appointees will mentor undergraduates and graduate students in our Joint Doctoral Program in Evolutionary Biology (offered jointly with the University of California, Riverside) and our Master of Science program in Evolutionary Biology, as well as contribute to our undergraduate and graduate teaching mission. Candidates that have a demonstrated track record of teaching or mentoring to promote equity in STEM are highly encouraged to apply, and successful candidates must satisfy SDSU's Building on Inclusive Excellence criteria < https://sacd.sdsu.edu/cie/guidance-candidates >.

To apply: https://apply.interfolio.com/114434 Deadline for application: November 1, 2022

For inquiries related to the position, please contact Dr. Lluvia Flores-Rentería (lforesrenteria@sdsu.edu) or Dr. Arun Sethuraman (asethuraman@sdsu.edu)

SDSU is the oldest institution of higher education in the San Diego region, with a campus and microsites in San Diego and locations in Southern California's Imperial Valley and Tbilisi in the Republic of Georgia. The highly diverse campus community has a student population of approximately 36,000. SDSU is included in the Carnegie Foundation's Doctoral Universities: High Research Activity category (R2). Established in 1897, SDSU offers bachelor degrees in 97 areas, masters in 84 and doctorates in 23. See http://www.sdsu.edu for more information. SDSU is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all. – *Arun Sethuraman, Ph.D.* Pronouns: He/him/his Assistant Professor *Department of Biology* asethuraman@sdsu.edu O: 619-594-3979

San Diego State University *| *SDSU.edu 5500 Campanile Drive | San Diego, CA 92182-8080 www.arunsethuraman.weebly.com A guest on the traditional territory and homelands of the Kumeyaay people. For more information please go to https://sacd.sdsu.edu/diversity-resources/land-acknowledgment Arun Sethuraman <asethuraman@sdsu.edu>

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StAndrews Scotland SciOfficer AquacultureGenetics

VACANCY: Scientific Officer Permanent position. Full time. Competitive salary, depending on experience.

Xelect Ltd is a leading aquaculture genetics service provider, based in St Andrews, Scotland, providing genetic services to the aquaculture industry worldwide, serving customers in 20 countries. We offer complete genetics support to breeding programmes for multiple species of fish and shellfish, alongside expert consultancy on broodstock and aquaculture operations.

Xelect has well equipped offices, a modern genetics laboratory and DNA sequencing facility. Our core business is breeding programme management services which requires routine genotyping of broodstock samples throughout the year, as well as additional express genetics services for small producers. Xelect also offers a unique staff development programme which includes staff training, seminars and tradeshow attendance.

We are seeking to appoint a dynamic and highly motivated professional to join our growing laboratory team based at our headquarters in St. Andrews, Scotland. The successful candidate will be responsible for performing routine laboratory procedures in accordance to well documented SOPs, to ensure smooth delivery of our services. This requires flexibility, high accuracy and efficiency in a fast-paced and rapidly changing environment. The candidate will have a good understanding of molecular biology techniques, as well as the ability to process and analyse data and subsequent compiling of client reports when needed. They will also be expected to have excellent organisational and time management abilities, be able to work effectively as a member of a team and have outstanding interpersonal and communication skills.

Essential skills:

BSc, MSc and/or PhD in molecular biology & genetics or proven relevant academic or industrial experience. Strong expertise and knowledge in a range of molecular

techniques, particularly DNA extraction, PCR, qPCR, SNP genotyping and preparing libraries for Next Generation Sequencing. Strong attention to detail and adherence to SOPs & GLPs. Ability to work as part of a team and independently when required. Ability to foresee and troubleshoot issues independently. Proven time management and efficiency. Excellent data recording and management, and computer literacy skills. Desirable skills:

Practical experience with emerging sequencing technologies (e.g. Illumina, Oxford Nanopore etc). Proficiency with programming languages such as R and Python. Bioinformatics training Basic knowledge of statistics. Basic knowledge of aquaculture breeding and genetics. Further details:

Monday to Friday working week Ability to reliably commute / relocate to St Andrews To apply please send a current CV and a covering letter to hello@xelect.co.uk, along with contact details of two referees. References will only be contacted after a successful interview

Marie Smedley <marie.smedley@xelect.co.uk>

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TempleU ComputationalBiology

Assistant Professor (Biology & Computation)

The Department of Biology at Temple University invites applications for a tenure-track position at the Assistant Professor level. Research areas of interest include but are not limited to, theoretical, computational, and big data science approaches to genomics, complex systems, phylodynamics, phylomedicine, structuromics, bioinformatics and/or machine learning. We seek candidates who combine cutting-edge approaches (experimental, theoretical, genomic, and/or computational) to address interdisciplinary questions that build synergies with existing departmental strengths.

The Department of Biology and the associated Institutes and Centers (Institute for Genomic & Evolutionary Medicine, Center for Computational Genetics & Genomics, Center for Viral Evolution, Center for Biodiversity, and High-Performance-Computing initiative) are home to broad, collaborative research initiatives with expertise in genomics, evolutionary genetics, evolutionary medicine, population/community ecology, global change biology, and developmental biology.

A Ph.D. or equivalent degree is the minimum required criterion. The successful candidates will demonstrate track records of research excellence, originality, and productivity; the ability to secure extramural funding for their research. They should have a commitment towards undergraduate and graduate teaching and mentorship; diversity, equity, and inclusion; and dedication to public outreach and engagement.

Deadline: 2022/11/30 (applications considered continuously) Apply at: academicjobsonline.org/ajo/jobs/23233 Job ID: 23233 on Academic Jobs Online site

Sudhir Kumar, Ph.D. Institute Director (igem.temple.edu) Carnell Professor (kumarlab.net) Temple University Philadelphia

Sudhir Kumar <s.kumar@temple.edu>

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TempleU Two Evolution

Faculty positions at Temple University

The Department of Biology at Temple University invites applications for tenure-track positions at the Assistant Professor level in two areas.

Position #1: Computational Biology: Research areas of interest include, but are not limited to, theoretical, computational, and big data science approaches to genomics, complex systems, phylodynamics, phylomedicine, structuromics, bioinformatics and/or machine learning. The department seeks candidates who combine cutting-edge approaches (analytical, theoretical, genomic, and/or computational) to address interdisciplinary questions that build synergies with existing departmental strengths. Apply online at academicjobsonline.org/ajo/jobs/23233 (Academic Jobs Online, #23233).

Position #2: Microbial Biology: Research areas of interest include, but are not limited to, microbial evolution, physiology, genetics, ecology, microbiomes, host-microbe interactions, and the impact of microbes on ecosystem processes. We seek candidates who combine cutting-edge approaches (experimental, theoretical, genomic, and/or computational) to address interdisciplinary questions that build synergies with existing departmental strengths. Apply online at aca-

demicjobsonline.org/ajo/jobs/23229 (Academic Jobs Online, #23229).

The Department of Biology and the associated Institutes and Centers (Institute for Genomic & Evolutionary Medicine, Center for Computational Genetics & Genomics, Center for Viral Evolution, Center for Biodiversity, and High-Performance-Computing initiative) are home to broad, collaborative research initiatives with expertise in genomics, evolutionary genetics, evolutionary medicine, population/community ecology, global change biology, and developmental biology.

A Ph.D. or equivalent degree is the minimum required criterion. The successful candidates will demonstrate track records of research excellence, originality, and productivity; the ability to secure extramural funding for their research. They should have a commitment towards undergraduate and graduate teaching and mentorship; diversity, equity, and inclusion; and dedication to public outreach and engagement. The deadline is November 30, 2022 (applications will be considered continuously). Apply at: https://academicjobsonline.org/ajo/Temple/BIOLOGY Sudhir Kumar, Ph.D. Institute Director (igem.temple.edu) Carnell Professor (kumarlab.net) Temple University, Philadelphia

Sudhir Kumar <s.kumar@temple.edu>

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TexasAMU EvolutionaryBiology

Two-year faculty position in the Department of Ecology and Conservation Biology, with the expectation of transitioning to tenure-track. The department has a strong focus on evolution (https://eccb.tamu.edu/) and many faculty members are part of the interdisciplinary Ecology and Evolutionary Biology program (https://eeb.tamu.edu/).

https://apply.interfolio.com/112395 Accountability, Climate, Equity, and Scholarship (ACES) Assistant Professor - College of Agriculture & Life Sciences Texas A&M University: College of Agriculture and Life Sciences: Ecology and Conservation Biology

Location: College Station, TX Deadline: Nov 30, 2022 at 11:59 PM Eastern Time

Description Texas A&M University's Accountability, Climate, Equity, and Scholarship (ACES) Faculty Fellows Program is a faculty hiring program that connects early career faculty advancing outstanding scholarship with relevant disciplinary units on campus. Faculty are hired as ACES Assistant Professors with the expectation of transitioning to tenure track (pending departmental review) by the end of the fellowship period. ACES is administered by the Office for Diversity in partnership with the College of Agriculture and Life Sciences.

In recognition of Texas A&M University's Diversity Plan, the ACES Faculty Fellows Program promotes the research, teaching, and scholarship of early career scholars who embrace the belief that diversity is an indispensable component of academic excellence. From this experience at Texas A&M, fellows should develop an understanding of the value of diversity and inclusion and the power that it holds for students, faculty, and staff to enrich their lives. As a public, land-grant, Hispanic-serving (HSI) research university, Texas A&M upholds its responsibility to accountability, campus climate, equity, and scholarship by maintaining a campus that affirms equity and fosters inclusion and belonging. Significantly, Texas A&M holds itself accountable to improve campus climate and equity goals through clear, accessible measures. ACES Assistant Professors are afforded access to invaluable academic and professional development experiences to advance their careers as scholars. The objective is for ACES Assistant Professors to transition to tenure-track faculty by the end of the fellowship. ACES Assistant Professors will benefit from: prescriptive mentoring, access to instructional best practices, a vast array of world-class research and productivity resources, and a robust network of renowned Texas A&M scholars from across disciplines.

ABOUT THE ACES FACULTY FELLOWS PROGRAM

* Texas A&M University's ACES Faculty Fellows Program is up to a two- year (24 month) fellowship for early career PhDs. Applicants' degrees should be completed no more than four years from the time of application. ACES Assistant Professors begin their appointment in August.

* The benefits and stipend are department specific. Benefits including medical, dental, and vision are available. The faculty fellowship period generally begins August 1 and ends on July 31. Start dates are negotiable, but must commence between July 1 and August 10.

* ACES Assistant Professors will receive reimbursement for one-time relocation fees, a research and travel allowance as specified in the position description, and a private office.

* ACES Assistant Professors will teach one course per

academic year, thereby benefiting from dedicated research time. Fellows will hold the title of ACES Assistant Professor.

* A hallmark of the Texas A&M University's ACES Faculty Fellows Program is the mentoring ACES Assistant Professors will receive, as well as its attention to community-building.

Qualifications Texas A&M University's ACES Faculty Fellows Program is up to a two-year (24 month) fellowship for early career PhDs. Applicants' degrees should be completed no more than four years from the time of application. Applicants' should have earned their doctoral degrees (PhD) between January 1, 2019 and July 1, 2023. Applications are welcome from scholars with a strength in, and evidence of, a respect for diversity and inclusion. We invite applications from scholars whose work aligns with a field in the College of Agriculture and Life Sciences in Ecology and Conservation Biology (ECCB).

Application Instructions Prior to beginning the online application, individuals are encouraged to review the instructions and the requested materials. Applications are due by 11:59 pm Eastern on November 30, 2022. The application for the Texas A&M University's ACES Fellows Program requires submission of the following online at http://apply.interfolio.com/112395:

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TexasAMU LabManager MolecularBiologyEvolution

Hi All,

I am looking for a lab manager for my new lab at Texas A&M, located in Fort Worth. This position is shared between my group (microbial evolution and genetics) and the MacFarlane group (nutritional biochemistry). The job posting is below; here is the link: https://tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/Fort-Worth-AL-RSCH/Laboratory-Manager_R-054995 All the best,

Alex

Job Posting Title Laboratory Manager

Job Description Summary The laboratory manager will support two research programs, one in microbial genetics, and one in nutritional biochemistry. The lab manager will be responsible for lab organization, training and supervision of students and personnel, equipment operation, and will design and conduct laboratory experiments.

Duties

* In consultation with the PIs, design and execute experiments in molecular biology, microbiology, cell culture, and/or small animal studies; keep detailed records of associated experimental details and research data including the development and maintenance of Standard Operating Procedures. * Manage and coordinate all lab inventory and equipment; specify and acquire necessary parts, equipment, materials, and supplies; operate and maintain research lab equipment. * Oversee handling, disposing of and keeping inventory of hazardous chemicals and biohazards in accordance with the appropriate laboratory safety procedures. * Supervise and provide training to junior- and mid-level technical support staff, graduate students, and/or undergraduate students, as assigned. * Use computers and technical equipment to perform data analysis and statistical analysis of research experiments and results * Provide support to the PIs in preparation of proposals to funding agencies * Maintain financial records related to research projects * Coordinate use of shared equipment with other researchers and technicians * Contribute to the writing of research-based publications. * Minimum Education A Bachelor's degree in biology, biochemistry, genetics, or other closely related fields, or equivalent combination of education and experience.

Minimum Experience Three years of related professional experience in life sciences research, including at least two years of related supervisory experience. Experience in planning, coordination, conduct and monitoring of laboratory operations. Experience in developing, adapting and validating new testing methodologies. Experience in operating, verifying/calibrating and maintaining scientific instrumentation.

Preferred Education

A Master's degree in biology, genetics, or other closely related fields.

Preferred Experience

Five years of professional experience in life sciences research.

Knowledge, Abilities, and Skills

Extensive experience with standard molecular biology techniques, including PCR, gel electrophoresis, and

molecular cloning. Experience with one or more of: standard microbiological methods; mammalian tissue culture; mouse experiments. Familiarity with Microsoft Word and Excel; experience in other statistical analysis software (R; Jump; SASS) is an asset but not required. Experience with data analysis and interpretation. Effective verbal and written communication skills. Willingness to attend workshops, seminars, and conferences. Proven ability to collaborate with others.

"alex.wong@ag.tamu.edu" <alex.wong@ag.tamu.edu>

TexasAMU Three MicrobiomeEvolution

https://apply.interfolio.com/112251 The College of Agriculture and Life Sciences seeks applications to fill three full-time tenure-track positions with nine-month academic appointments with research (60%), teaching (30%) and service (10%) responsibilities beginning August 1, 2023. Applicants will be considered for the faculty title of Assistant Professor in one of four units, the Department of Ecology and Conservation Biology, the Department of Entomology, the Department of Plant Pathology and Microbiology, or the Department of Soil and Crop Sciences at Texas A&M University.

For more information on the participating departments, visit the links below: Ecology and Conservation Biology https://eccb.tamu.edu/ Entomology https://-entomology.tamu.edu/ Plant Pathology and Microbiology https://plantpathology.tamu.edu/ Soil and Crop Sciences https://soilcrop.tamu.edu/ The successful candidates will be required to develop and lead an independent, extramurally- funded, internationally recognized research program in microbiome sciences. Candidates with demonstrated experience in and potential for continued development of methods for microbiome analysis, including 'omics', bioinformatics, imaging, etc., and interest in collaborative research are particularly encouraged. Responsibilities will also include teaching at the graduate and undergraduate levels, and service to the department, university, and the profession, including possible outreach to industry.

The successful candidates will be offered a competitive salary, startup package, and laboratory space in one of the four departments participating in the search (see URLs to each department above), at Texas A&M AgriLife Research and the College of Agriculture and Life Sciences.

RESOURCES: Texas A&M University is a public, land-grant institution with many high-quality academic units conducting research in the various fields of agriculture and life sciences. The university promotes multiscale-based interdisciplinary research to advance foundational knowledge and application in agriculture, engineering, and medicine. In addition to departments, Texas A&M University has several interdisciplinary graduate programs including Ecology and Evolutionary Biology, Genetics and Genomics, and Molecular and Environmental Plant Sciences. The campus has diverse core facilities (https://vpr.tamu.edu/research-resources/core-facilities/) supporting research requiring protein and nucleic acid technologies, high- and super- resolution fluorescent imaging, high-performance computing, plant growth and transformation.

RESOURCES FOR JOB CANDIDATES AND NEW FACULTY https://advance.tamu.edu/Resources/-Resources-for-Job-Candidates-and-New-Faculty Texas A&M University is aware that attracting and retaining exceptional faculty often depends on meeting the needs of two careers and having policies that contribute to work-life balance. For more information, visit https:/-/employees.tamu.edu/employee-relations/eeo.html or https://facultyaffairs.tamu.edu/Opportunities/Dual-Career ABOUT THE COMMUNITY

The University is in College Station, which combined with the twin city of Bryan, forms a metropolitan community of approximately 275,000 people with high-quality amenities and a low cost of living. In addition to excellent health, education, and recreational services, the community affords a rich variety of cultural activities typical of a major university environment, including sports, museums, music, art, and theater. The College Station-Bryan area is also centrally located between Texas' major metro areas including Houston, Dallas-Ft Worth, Austin, and San Antonio.

Qualifications Applicants must have a Ph.D. or equivalent degree in an area related to microbiome research, including but not limited to genetics, genomics, biology, ecology, entomology, microbiology, plant pathology, soil science, crop science, etc. Evidence of the potential for developing an outstanding research program and indications of strong mentorship and teaching skills are required. Applicants are also expected to have strong interpersonal and communication skills, and the desire to collaborate with others in a collegial team environment.

Application Instructions Applicants must submit: 1) a cover letter with a statement of the applicant's inter-

est and suitability for the position, 2) a comprehensive curriculum vitae, 3) a three-page statement of

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TrentU Canada EvolutionaryCellBiol

At Trent University (Peterborough, Ontario) we are recruiting a new tenure-track hire in the area of "cell biology". As the job ad explains (below), we are looking for someone who works on organisms at a cellular level and examines responses to environmental change/stressors. Evolutionary biology would be a relevant research focus, and we are broadly interested in folks working in any taxa. A key requirement is that the successful hire is qualified to teach cell biology at the undergraduate level, but beyond this requirement it's clear from the job ad that we are open to wide range of research themes. Trent has a beautiful campus and Peterborough is a great place to live. Our full job posting follows below.

Trent University invites applications for a tenure track position in the field of Cell Biology, in the Department of Biology. The appointment will be at the rank of Assistant Professor and will commence July 1, 2023. This position will be located at the Trent Peterborough campus and is subject to budgetary approval.

A completed Ph.D. and relevant research experience are required, with teaching experience considered an asset. The successful candidate is expected to have a demonstrated research record and the potential to secure external funding. We seek an individual who investigates cellular responses to environmental stressors and/or environmental change. Research areas could include developmental processes at the cellular or molecular level, evolutionary developmental biology, cell physiology and metabolism, inter- and intra-cellular communication, and/or cellular stress responses, among others. A research program spanning multiple levels of biological organization (genes-to-whole organisms) and that complements current research in the Department of Biology (www.trentu.ca/biology) would be an asset. Applicants must be committed to undergraduate and graduate level training through teaching, mentorship of student research, and student advising as a member of the Department of Biology and the Environmental and Life Sciences Graduate Program (www.trentu.ca/els).

Applications should include a cover letter, a curriculum vitae, a statement of teaching experience and philosophy, a brief description of proposed research, and the names, email addresses, and telephone numbers of three referees who would be willing to write on the candidate's behalf. Please note that applications will only be accepted in PDF format via email. Please send applications and/or any questions to biologyjobs@trentu.ca, attention Professor Gary Burness, Chair, Department of Biology. The deadline for receipt of applications is December 15, 2022.

Trent University is actively committed to creating a diverse and inclusive campus community and encourages applications from all qualified candidates. Trent University offers accommodation for applicants with disabilities in its recruitment processes. If you require accommodation during the recruitment process or require an accessible version of a document/publication, please contact garyburness@trentu.ca. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

https://www.trentu.ca/humanresources/careers/-full-time-faculty/assistant-professor-cell-biology-tenure-track Graham D. Raby Assistant Professor Biology | Trent University Peterborough, ON, Canada www.rabylab.com Graham Raby <grahamraby@trentu.ca>

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UAlabama TeachingEvolutionaryCellBiol

The Department of Biological Sciences at The University of Alabama, Tuscaloosa, seeks to hire an Assistant Professor for a 12-month non-tenure track renewable contract (NTRC) teaching position in cell and molecular physiology or related fields beginning August 2023. Evolutionary Biologists are strongly encouraged to apply. We are seeking a dynamic, enthusiastic individual who is interested in teaching excellence and collaboration with lecture and laboratory experience in cell/molecular biology and human anatomy and physiology. Applicants must hold a Ph.D. in Biological Sciences or a related

field. Teaching duties for the NTRC faculty member include lower-undergraduate core majors courses, as well as upper-undergraduate courses in the successful candidate's area of expertise depending on the department's need. Example courses include but are not limited to: Human Physiology, Human Anatomy, Genetics and Cell Biology. Summer duties will include working with other faculty to revise existing lab course curricula, and design new lab activities and CURE courses. The candidate is expected to incorporate innovative teaching methodologies to enhance the learning experience of our students and achieve learning outcomes. The NTRC faculty member is expected to serve on department, college, and/or university committees and to participate in undergraduate advising. There is no formal research requirement. The position is structured as a renewable 12 month, 3-year contract with an annual performance review that will allow for promotion through the academic ranks.

Questions about this position should be addressed to the chair of the search committee, Dr. Tyler W. Hodges (hodge002@ua.edu). To apply go to https://-facultyjobs.ua.edu/postings/51381 complete the online application, and upload: (1) a cover letter outlining qualifications (e.g., including courses taught, innovative teaching practices, academic experience); (2) CV; (3) a list of three to five references (including contact information); (4) a statement of teaching interests and philosophy; and (5) a statement on the ways in which issues related to diversity, equity, and inclusion will shape your approach to teaching, research, and service. The search committee will request letters of reference as needed. Consideration of applications will begin January 4th, 2023, and will continue until the position is filled. There will be a preliminary Zoom conversation with selected applicants, after which top candidates will be informed whether their formal interviews will proceed virtually or in-person, depending on the coronavirus pandemic conditions. Prior to hiring, the final candidate will be required to pass a pre-employment background investigation. The expected start date is August 16, 2023. Additional information about the Department of Biological Sciences can be found on our website at http://bsc.ua.edu. Applications from women and members of traditionally underrepresented groups in Biology are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

Sincerely, Daryl W. Lam

Associate Professor, Department of Biological Sciences The University of Alabama email: dwlam@ua.edu

Daryl Lam <dwlam@ua.edu>

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UArizona Biodiversity

The Department of Ecology & Evolutionary Biology at the University of Arizona (Tucson, Arizona, USA) is accepting applications for atenure track Assistant Professor position to begin in August 2023. We are broadly interested in applicants working in any area of ecology (e.g. physiological, behavioral, population, community, global, theoretical, computational, experimental, field, and climate change ecology, as well as biodiversity science and eco-informatics). We welcome those with expertise in individual systems and those who integrate across approaches, systems, or scales. We encourage programs that involve local or regional systems and leverage the university's experimental and computational resources.

More information and application here: https:/-/arizona.csod.com/ux/ats/careersite/4/home/-requisition/12149?c=arizona Application review will begin November 8th, 2022.

"Dlugosch, Katrina M - (kdlugosch)" <kdlugosch@arizona.edu>

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UArizona EvolutionaryEntomology

Tenure-Track Assistant Professor in Medical Evolutionary Entomology

The Department of Entomology (https://-cals.arizona.edu/ento/) at the University of Arizona is recruiting a tenure-track Assistant Professor in Medical Entomology. The successful candidate is expected to develop a top-quality, externally funded research program elucidating the biology of arthropods of medical or veterinary importance. Research areas may include, but are not limited to, molecular biology, physiology, ecology, behavior, genomics, modeling, and population genetics. The new hire will have the opportunity to collaborate with an established group of faculty with interests in medical entomology, including

faculty in the Departments of Entomology, Chemistry and Biochemistry, and Epidemiology. Opportunities also exist to participate in established collaborations with Arizona tribal nations, partner institutions in Mexico, and the Pacific Southwest Center of Excellence in Vector-Borne Diseases

The successful candidate is expected to develop and teach undergraduate courses in the Department of Entomology and graduate courses in the Entomology and Insect Science Graduate Interdisciplinary Program (https://insects.arizona.edu/). The candidate will mentor graduate and undergraduate students from diverse backgrounds. The successful candidate will also participate in outreach; contribute to department, college, and university service; and develop innovative approaches for enhancing student engagement, fostering an inclusive environment, and expanding collaborations with community partners.

Qualifications

A doctorate in Entomology or a related discipline is required and postdoctoral experience is desirable. Candidates should have demonstrated skills in verbal and written communication, a commitment to increasing diversity and inclusion, high potential to obtain extramural funding, and a strong publication record. Candidates must support the mission of the land-grant university system.

The University of Arizona

The University of Arizona is a Top 20 public research university. As a federally designated Hispanic Serving Institution, we value our inclusive climate and recognize that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, and solving complex problems. We encourage applications from diverse candidates, including members of groups that have been underrepresented in the sciences, people of color, women, veterans, and individuals with disabilities. The University of Arizona has been listed by Forbes as one of America's Best Employers in the United States and the Arizona Department of Health Services have recognized us for our innovative work-life programs. Tucson is culturally diverse, rich in natural beauty, and home to many recreational resources.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; UA/ASU/NAU tuition reduction for the employee and qualified family members; state and optional retirement plans; access to UA recreation and cultural activities; and more!

How to Apply Applicant reviews will begin November 30, 2022 and continue until the position is filled. Candidates should submit a cover letter stating their interest in the position and relevant qualifications, statements of research and teaching interests, statement of diversity and inclusion, Curriculum Vitae, up to three publications, and contact information for three references.

Submission of application materials and additional details about this position can be found at https://arizona.csod.com/ux/ats/careersite/4/home/requisition/12068?c=arizona . Dr. Luciano M. Matzkin (he/him/el) Associate Professor University of Arizona Department of Entomology BIO5 Institute Department of Ecology and Evolutionary Biology 520-621-1955 Marley 641F www.matzkinlab.org https://cactusflybase.arizona.edu/ "Matzkin, Luciano Matias - (lmatzkin)" <lmatzkin@arizona.edu>

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UArizona PlantGenomicsBioinformatics

Bioinformatician - Research Scientist at the University of Arizona

The Arizona Genomics Institute (School of Plant Sciences) and the Wheeler Lab (Pharmacy Practice & Science Department) are seeking a talented and motivated candidate for a shared Bioinformatician. The successful candidate will produce and validate genome assemblies and annotations (genes, repeats, transposable elements), manage the handling of genomic datasets, and perform genome biology and evolution analyses. They will work in close contact with team members (including both wet lab researchers and computational genomics software developers), serve as point of contact for external data providers and collaborators, and aid in development of grant proposals. Thus, experience in translating concepts between disciplines is required. The position is available immediately; applications will be reviewed until the position is filled. We seek candidates that will strengthen efforts by the University to promote diversity, equity, and inclusivity initiatives on campus, and who will help to promote programs that seek to increase participation from traditionally underrepresented groups in STEM.

DUTIES AND RESPONSIBILITIES: - Conceive and design data analysis methods for modern genomic datasets (developed from PacBio, Oxford Nanopore, Hi-C, Illumina platforms and more) and execute them. - Man-

age research projects, source datasets and materials in a semi- autonomous way. Set up platforms for data and software development and sharing. - Develop autonomously supplementary research lines and hypotheses, as well as methods of data analysis and interpretation. - Interact with, supervise, and train other researchers and contribute to an overall productive scientific and personal environment. - Maintain detailed records, summarize the results in reports, and disseminate research findings in meetings and as manuscripts in scientific journals. - Develop software pipelines for data analysis, in collaboration with team members. - Additional duties may be assigned.

KNOWLEDGE, SKILLS, AND ABILITIES: - Familiarity with the concepts of DNA, RNA, genome, heterozygosity, chromosomes. Long- and short-read sequencing technologies, Hi-C and optical maps. Sequencing data QC, current genome assembly and validation software, pseudomolecule construction. Genome annotation for coding and non-coding genes, transposable elements, tandem repeats. - Scripting in R or Python. Use of Linux command line to run software and manipulate files. Distributing analysis jobs to clusters (SLURM preferred) and/or cloud computing. Familiarity with Docker, NextFlow (or similar workflow solutions), git. - Self-motivation, being outcome oriented, willing and able to learn new skills, having excellent written and oral communication. - Demonstrated capacity to troubleshoot issues and develop innovative analysis methods. - We seek applicants who value people, teamwork, trust, integrity, and product excellence.

MINIMUM QUALIFICATIONS: PhD in biology, genetics, bioinformatics, or related fields. Proven experience in handling genomic datasets and working with computational tools for genomics analysis.

PREFERRED QUALIFICATIONS: - Previous experience in eukaryotic genome assembly and annotation. - Familiarity with handling datasets from plant and non-model organisms. - Familiarity with handling metagenomic datasets.

Preferred Start Date: December 1, 2022 Number of Hours per week: 40 hrs. 1.0 FTE Wage: $68,000 - $90,000 depending on experience

Application link: https://arizona.csod.com/ux/ats/careersite/4/home/requisition/12280?c=arizona More information: Dario Copetti: dcopetti@arizona.edu Travis Wheeler: twheeler@arizona.edu

dcopetti@cals.arizona.edu

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UCalifornia Berkeley ResAssoc EvolutionaryGenetics

Staff Research Associate, PMB (9612C) http://jobs.berkeley.edu Job ID# 43468

Departmental Overview The Blackman Laboratory in the Department of Plant & Microbial Biology requires a Staff Research Associate II to assist with research in evolutionary and ecological developmental genetics using sunflower and monkeyflower as study systems. Research in the lab focuses on how and why plant developmental responses to environmental cues evolve during domestication, adaptation, and speciation.

The position involves a combination of research and lab management responsibilities. Research duties include planning and executing greenhouse, growth chamber, and field studies; molecular and biochemical work (e.g. DNA/RNA extraction, genotyping, qRT-PCR, sequencing library construction); computational analysis; and training and supervising students or volunteers.

The Department of Plant & Microbial Biology is committed to the University of California's mission of dedicated research and to providing a superior education in plant biology, microbiology, and related life sciences. We integrate fast-changing technology and developments into our research and develop collaborative partnerships with other scientists and research institutions at UC Berkeley and around the world.

About Berkeley

At the University of California, Berkeley, we are committed to creating a community that fosters equity of experience and opportunity, and ensures that students, faculty, and staff of all backgrounds feel safe, welcome and included. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

The University of California, Berkeley, is one of the world's leading institutions of higher education, distinguished by its combination of internationally recognized academic and research excellence; the transformative opportunity it provides to a large and diverse student body; its public mission and commitment to equity and social justice; and its roots in the California experience, animated by such values as innovation, questioning the status quo, and respect for the environment and nature. Since its founding in 1868, Berkeley has fueled a

perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world.

We are looking for equity-minded applicants who represent the full diversity of California and who demonstrate a sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds present in our community. When you join the team at Berkeley, you can expect to be part of an inclusive, innovative and equity-focused community that approaches higher education as a matter of social justice that requires broad collaboration among faculty, staff, students and community partners. In deciding whether to apply for a position at Berkeley, you are strongly encouraged to consider whether your values align with our Guiding Values and Principles, our Principles of Community, and our Strategic Plan.

At UC Berkeley, we believe that learning is a fundamental part of working, and our goal is for everyone on the Berkeley campus to feel supported and equipped to realize their full potential. We actively support this by providing all of our staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. To find out more about how you can grow your career at UC Berkeley, visit grow.berkeley.edu.

Application Review Date

The First Review Date for this job is: 10/14/2022.

Responsibilities

Planning and Carrying Out Experiments:

- Includes planning and executing greenhouse, growth chamber, and field studies; carrying out DNA/RNA extractions, PCR or qRT-PCR amplification, sequencing library construction and sequencing; computational or statistical analysis of data. - Assist in evaluating research methods, procedures, and techniques, based on established objectives. - Provide basic assistance to researchers in manipulating, computing, and analyzing data using specialized statistical computer software. - Assist with training other staff members on procedures; may supervise students or volunteers. - Assist Principal Investigators and other researchers in developing new strategies and techniques for experimentation. - Provide routine, technical, and administrative support to research projects.

Managing Datasets and Seed Stocks:

- Record/enter, proofread, organize, and summarize datasets in Excel or other database software; ensure the integrity of large datasets, samples, and notes so they are easily accessible to the Principal Investigator and other lab members; organize and maintain lab seed stocks

Maintaining and Collecting Data on Experiments in Controlled or Field Conditions:

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UConnecticut EvolutinaryBiology

The Department of Ecology and Evolutionary Biology (EEB) at the University of Connecticut (UConn) is pleased to invite applications for a tenure-track faculty position in Integrative Organismal Biology of Invertebrates at the Assistant Professor level. The Department seeks a research scientist who applies innovative approaches and an understanding of organisms as integrated systems to achieve novel insights into fundamental questions in evolution, systematics, conservation, and/or ecology. Examples of possible areas include, but are not limited to, biodiversity discovery at the genomic and organismal levels; evolutionary processes shaping diversity within and across lineages; organismal morphology, function, physiology, and behavior in a comparative context; and species interactions, including parasitism.

This position complements Departmental strengths in ecology, evolution, systematics, organismal biology, and conservation biology. The Department offers a highly collaborative environment at a leading public research university that is committed to fostering a diverse and inclusive academic community. More information about the Department can be found at https://www.eeb.uconn.edu. EEB's Biodiversity Research Collections (https://biodiversity.uconn.edu) comprise outstanding collections of invertebrates, vertebrates, and plants. Departmental foci are complemented by faculty in intersecting departments, including Marine Sciences; Molecular and Cell Biology; Physiology and Neurobiology; Natural Resources and the Environment; Anthropology; and Earth Sciences, as well as the Institute of the Environment (https://instituteofenvironment.uconn.edu).

The successful candidate will be expected to: (1) supervise an independent research program that will attract extramural funding, provide research training for graduate and undergraduate students, and offer professional service to the Department and University; (2) use effective, evidence-based methods to teach at the undergraduate and graduate levels, including an organismal biodiversity course focused on invertebrates (e.g., invertebrate zoology, entomology, or parasitology); (3) mentor students in research, outreach, and professional development; and (4) broaden participation of members of underrepresented groups, engage diverse groups through research, teaching, and public engagement, and exhibit skill in using pedagogical techniques designed to meet the needs of individuals with diverse backgrounds, learning styles, and intellectual interests.

Founded in 1881, UConn is a Land Grant and Sea Grant institution and member of the Space Grant Consortium. It is the state's flagship institution of higher education and includes a main campus in Storrs, CT, four regional campuses throughout the state, and 13 Schools and Colleges, including a Law School in Hartford, and Medical and Dental Schools at the UConn Health campus in Farmington. The University has approximately 10,000 faculty and staff and 32,000 students, including nearly 24,000 undergraduates and over 8,000 graduate and professional students. UConn is a Carnegie Foundation R1 (highest research activity) institution, among the top 25 public universities in the nation. Through research, teaching, service, and outreach, UConn embraces diversity and cultivates leadership, integrity, and engaged citizenship in its students, faculty, staff, and alumni. UConn promotes the health and well-being of citizens by enhancing the social, economic, cultural, and natural environments of the state and beyond. The University serves as a beacon of academic and research excellence as well as a center for innovation and social service to communities. UConn is a leader in many scholarly, research, and innovation areas. Today, the path forward includes exciting opportunities and notable challenges. Record numbers of undergraduate applications and support for student success have enabled the University to become extraordinarily selective.

MINIMUM QUALIFICATIONS

* A Ph.D. or equivalent in ecology and evolutionary biology or a related field by the time of appointment. Equivalent foreign degrees are acceptable. * Two peer-reviewed publications in invertebrate evolution, systematics, conservation, or ecology. * Ability to teach an organismal biodiversity course focused on invertebrates (e.g., invertebrate zoology, parasitology, or entomology). * Demonstrated understanding of barriers to equitable outcomes in STEM fields and a commitment to promote diversity and inclusion through research, teaching, and/or public engagement, as evidenced by past actions, lived experience, or a detailed plan for future work.

PREFERRED QUALIFICATIONS

* Potential to establish an internationally recognized research

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UConnecticut PopulationGenomics

The Department of Ecology and Evolutionary Biology (EEB) at the University of Connecticut (UConn) invites applications for a tenure-track faculty position in Population Genetics or Population Genomics at the Assistant Professor level. The Department seeks a research scientist who conducts innovative research on population genetics or population genomics to answer important questions about evolutionary processes, ecology, systematics, epidemiology, or conservation biology. The research could include the development of new analytical theory in population genetics, creation of cutting-edge statistical tools or software for population genetic inferences, or application of advanced theory or statistics to empirical data to draw inferences about evolution or related fields. Candidates may focus on the population genetics of single loci, genomes, or evolutionary quantitative genetics. Empirical research, if any, may be focused on any taxonomic group(s).

This position builds on Departmental strengths in ecology, evolution, systematics, organismal biology, and conservation biology. The Department offers a highly collaborative environment at a leading public research university that is committed to fostering a diverse and inclusive academic community. More information about the Department can be found at https://www.eeb.uconn.edu. EEB's Biodiversity Research Collections (https://biodiversity.uconn.edu) comprise outstanding collections of vertebrates, invertebrates, and plants. Departmental foci are complemented by faculty in intersecting departments, Molecular and Cell Biology; Physiology and Neurobiology; Statistics; Natural Resources and the Environment; Marine Sciences; Anthropology; Plant Sciences; and Animal Sciences, as

well as the Institute for Systems Genomics. Faculty in several other departments add additional strength in bioinformatics, and faculty at the UConn Health Center and the Jackson Laboratory for Genomic Medicine contribute substantial strength in human population genomics. In addition, the University is embarking on an endeavor to strengthen our ability to analyze big data that will create many additional opportunities for the successful candidate.

The successful candidate will be expected to: (1) supervise an independent research program that will attract extramural funding, provide research training for graduate and undergraduate students, and offer professional service to the Department and University; (2) teach an undergraduate course, and a graduate-level population genetics class, using effective evidence-based teaching methods; (3) mentor students in research, outreach, and professional development; and (4) broaden participation of members of underrepresented groups, engage diverse groups through research, teaching, and public engagement, and exhibit skill in using pedagogical techniques designed to meet the needs of individuals with diverse backgrounds, learning styles, and intellectual interests.

Founded in 1881, UConn is a Land Grant and Sea Grant institution and member of the Space Grant Consortium. It is the state's flagship institution of higher education and includes a main campus in Storrs, CT, four regional campuses throughout the state, and 13 Schools and Colleges, including a Law School in Hartford, and Medical and Dental Schools at the UConn Health campus in Farmington. The University has approximately 10,000 faculty and staff and 32,000 students, including nearly 24,000 undergraduates and over 8,000 graduate and professional students. UConn is a Carnegie Foundation R1 (highest research activity) institution and is among the top 25 public universities in the nation. Through research, teaching, service, and outreach, UConn embraces diversity and cultivates leadership, integrity, and engaged citizenship in its students, faculty, staff, and alumni. UConn promotes the health and well-being of citizens by enhancing the social, economic, cultural, and natural environments of the state and beyond. The University serves as a beacon of academic and research excellence as well as a center for innovation and social service to communities. UConn is a leader in many scholarly, research, and innovation areas. Today, the path forward includes exciting opportunities and notable challenges. Record numbers of undergraduate applications and support for student success have enabled the University to become extraordinarily selective.

MINIMUM QUALIFICATIONS

* A Ph.D. or equivalent in ecology and evolutionary biology, biology, biostatistics, or a related field by time of appointment. Equivalent foreign degrees are acceptable. * At least two publications in peer-reviewed journals, presenting novel research in population genetics. * Ability to teach population genetics and related topics in evolutionary genetics or genomics, using innovative and effective pedagogical methods.

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UDuesseldorf PlantEvolution

The Faculty of Mathematics and Natural Sciences of the Heinrich-Heine-University Düsseldorf aims to strengthen their research focus on plant ecology and invites applications for a

W1 Junior Professorship (with Tenure Track to W2) for Plant Ecology

We are looking for a personality whose research will unfold at the interface of plant ecology with genetics or genomics. Both experimental and theoretical approaches may be used. It is expected that the successful applicant has an excellent track record in the research area of ecology and/or evolutionary ecology of vascular plants documented by relevant publications in international scientific journals.

It is required that the research focus is in one of the thematic areas of the SFB/Transregio 341 "Plant Ecological Genetics" (https://trr341.uni-koeln.de/). The SFB/TRR341 aims to unravel the fundamental genetic and genomic mechanisms that contribute to ecological specialization and adaptation in plants. The successful candidate is expected to actively shape future research collaborations in the field, and to be involved in the academic instruction of undergraduate and graduate courses in ecology and organismal biology. Experience in scientific supervision of students and/or in leading a scientific research group is essential.

Of advantage are: - Independent acquisition of fellowships and/or third-party funding - Experience in university teaching - Interdisciplinarity, experience in research at the interface of ecology and genetics/genomics - International research experience - Communication skills through public relations/citizen science, collaboration,

gender, and diversity skills - Experience in university administrative activities

At our lively university campus, we offer an excellent research environment and infrastructure, such as a new research building complex (completed in 2020) uniting Biology and Biochemistry, the Plant Environment Adaptation Center (PEAC, under construction), new greenhouses, climate chambers and outdoor experimental sites in the HHU Botanical Garden. In addition, there is a long-standing close collaboration with the University of Cologne, the Max Planck Institute for Plant Breeding Research and the Research Center Jülich within the Cluster of Excellence for Plant Sciences (CEPLAS). The faculty and HHU support the establishment of a working group and its integration into the faculty (research management and transfer, international networking, qualification of young researchers via JUNO and iGRAD, among others). Conditions for employment are, in addition to general administrative conditions in accordance with ï¿½ 36 of the North Rhine-Westphalia University Act (Gesetz über die Hochschulen des Landes Nordrhein-Westfalen), an aptitude for teaching, exceptional competence in research, and additional scientific achievements. Female candidates are encouraged to apply; they will be given preference in cases of equal aptitude, ability, and professional achievements unless there are exceptional reasons for choosing another applicant. Heinrich Heine University lives the principle ï¿½excellence through diversity". HHU has signed the "Charta der Vielfalt (diversity)" and successfully participated in the audit "Shaping Diversity" of the Stifterverband. HHU is certified as family-friendly and aims to promote its employees' diversity. Applications from suitably qualified severely disabled persons or disabled persons regarded as being of equal status according to Book IX of the German Social Legal Code (SGB ' Soziales Gesetzbuch) are encouraged. At Heinrich Heine University Düsseldorf, appointments may also be part-time, provided there are no overriding administrative reasons in individual cases for requiring full-time employment.

Heinrich Heine University Düsseldorf offers a Dual Career Service and is a member of the Rhineland Dual Career Network (Dual Career Netzwerk Rheinland). Further information can be found under www.dualcareer-rheinland.de. For further inquiries, please contact Prof. Dr. Maria von Korff Schmising (email: maria.korff.schmising@hhu.de, Tel: 0211-8113350). Please submit your application with (1) a letter of motivation, (2) a curriculum vitae including lists of all scientific publications (indicating your three most relevant publications) and third-party funds (incl. scholarships), (3) copies of academic certificates, (4) a brief research and teaching concept (max. 5 pages), as well as (5) a course catalogue via the appointment portal https://berufungsportal.hhu.de/ and complete the information requested there as fully as possible. The application deadline is 20.10.2022

"Korff Schmising, Maria" <Maria.Korff.Schmising@uni-duesseldorf.de>

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UExeter ResTech QuantGenetics

Hi All,

The Fraser Lab at the University of Exeter (Exeter campus) is recruiting a research technician.

The above full-time post is available from 1 December 2022 to 31 December 2023 in the Faculty of Health and Life Science.

The starting salary will be from ï¿½28,762 up to ï¿½36,386 on Grade E, depending on qualifications and experience. The successful applicant will be integral to a quantitative genetics experiment in guppies (Poecilia reticulata), and involve organising and monitoring fish breeding crosses, phenotyping fish morphology, molecular laboratory techniques (e.g. DNA extraction), and day-to-day management of the lab. Application and more information can be found here: https://jobs.exeter.ac.uk/hrpr_webrecruitment/-wrd/run/ETREC107GF.open?VACANCY_ID=-523733bX92&WVID=3817591jNg&LANG=USA
Message me for more information: B.fraser@exeter.ac.uk

Bonnie Fraser

Department of Biosciences

University of Exeter

Exeter, UK

EX4 4QD

Pronouns: she/her

Please note, I may send emails out of 'normal' working hours, as this fits my own work-life balance. I do not expect a response outside of your own working hours.

"Fraser, Bonnie" <B.Fraser@exeter.ac.uk>

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UFlorence EvolBiologyBiodiversity

Title: Department of Biology, University of Florence, Assistant Professor position, Evolutionary Biology and Biodiversity

Dear Colleagues

Applications are invited for appointment as Assistant Professor (tenure track) in ecology/biodiversity at the Department of Biology of the University of Florence within the frame of the recently funded Italian Project - National Biodiversity Future Center - NBFC - https://-www.nbfc.it/ .

We are looking for a researcher who can work on the effects of climate change on Mediterranean biodiversity. This position was designed to recruit a colleague who can help us work on models to predict the effects of climate change on Mediterranean terrestrial and freshwater fauna and to develop new conservation measures for Mediterranean ecosystems. We are therefore looking for someone who is able to integrate data collected in the field (monitoring and distribution of natural populations) and in the laboratory (we will create and equip a behavioral physiology lab where to study the effects of climate change) in models forecasting population distribution and vulnerability of key species of the Mediterranean fauna in the medium and long term.

Applicants should possess a Ph.D. degree in evolutionary biology, ecology, conservation or a related discipline, with a demonstrated record of research achievement. Experience in scripting in at least one language (preferably R or Python) would be beneficial.

The deadline of the call is 19/10 and the online submission system is here: https://sol.unifi.it/pao/ . Please, feel free to get in touch with me by email for further information.

Stefano Cannicci Full Professor of Zoology Department of Biology, University of Florence stefano.cannicci@unifi.it

Stefano Cannicci, PhD Vice President for Postgraduate Studies University of Florence Piazza San Marco 4 50121, Firenze Italy Mobile: +39 331 2310498 Phone (Uni Office): +39 055 2756515 Email stefano.cannicci@unifi.it

Full Professor of Zoology Department of Biology, University of Florence via Madonna del Piano 6, 50019, Sesto Fiorentino Phone (Dept. office): +39 0554574720

Stefano Cannicci <stefano.cannicci@unifi.it>

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UGeorgia BotanicCollectionsResearch

Assistant Professor and Curator of the University of Georgia Herbarium [GA]

The Department of Plant Biology at the University of Georgia (plantbio.uga.edu) invites applications for a tenure-track faculty position in collections-based research focused on plant diversity, ecology, evolution, and/or conservation to begin Aug 1, 2023 at the level of Assistant Professor. The successful applicant will also serve as Curator of the University of Georgia Herbarium [GA], one of the largest herbaria in the southeastern United States with > 290,000 vascular plant specimens. Collections-based research foci could include, but are not limited to: plant conservation, plant responses to climate change, plant-fungal interactions, plant biogeography, the ecological impact of invasive plants, crop-wild relatives and plant domestication, plant-centered data science, ethnobotany, and systematics and evolution. Outstanding opportunities for collaboration exist with the GA Museum of Natural History (naturalhistory.uga.edu), the State Botanical Garden (botgarden.uga.edu), and plant science faculty across departments and colleges (plantcenter.uga.edu). UGA provides excellent research infrastructure including extensive greenhouses, the Georgia Genomics and Bioinformatics Core, a Microscopy Core, and the Georgia Advanced Computing Resource Center.

Competitive applicants will have a strong record of research productivity, demonstrate a well-developed research plan, and exhibit a commitment to inclusive teaching/mentoring at the undergraduate and graduate levels. A PhD (or equivalent) in plant biology or a related field is required at the time of appointment. 1+ year of postdoctoral experience and prior success utilizing and/or managing herbarium/museum collections is highly desirable.

Candidates should submit a: (1) cover letter, (2)

curriculum vitae, (3) statement of research interests and plans for future collections-based research and herbarium curation (3 pages max); and (4) statement of teaching interests and philosophy (2 pages max). Perspectives on diversity, equity, and inclusion should be integrated into both the research and teaching statements. Applications must be submitted online (https://www.ugajobsearch.com/postings/283870). Candidates should also arrange for the submission of a minimum of 3 letters of recommendation to: pbiopositions@plantbio.uga.edu. Questions can be directed to the search committee using the same address. Completed applications received by Nov. 4, 2022 are assured full consideration, though review of applications will continue until the position is filled.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students and sustaining a work and learning environment that is inclusive. Women, minorities, protected veterans, and individuals with disabilities are encouraged to apply. The University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search should contact Central HR (hrweb@uga.edu). Please do not contact the department or search committee with such requests.

Jim Leebens-Mack Department of Plant Biology 2101 Miller Plant Sciences University of Georgia Athens, GA 30602-7271

Phone: 706-583-5573 Fax: 706-542-1805 email: jleebensmack@uga.edu url: www.jlmlab.com James H Leebens-Mack <jleebensmack@uga.edu>

UGeorgia HeadOfGeneticsDept

The Department of Genetics at the University of Georgia (UGA) invites applications for a Head of Department at the rank of full professor with an anticipated start date of August 1, 2023. We are broadly interested in life scientists who address fundamental questions in genetics and who are eager to lead our department. The research questions could be basic or translational and should complement one or more existing research areas in the department.

The Head of Department will be an accomplished scientist, with internationally recognized expertise in genetics. The successful candidate will continue an active role in research and teaching. The successful applicant will demonstrate a history of leadership that has prepared them for leading a department. They will be expected to have a well-developed vision for the Department of Genetics, an active research program, a commitment to teaching and mentoring, and a plan for promoting diversity, equity, and inclusion. The Head of the Department will report to the Dean of the Franklin College of Arts & Sciences and will oversee academic, personnel, administrative, and budgetary matters in the department.

UGA is a research-intensive land-grant university. Research in the Department of Genetics spans a broad range from developmental and molecular genetics to evolutionary biology and ecology, and the department has strengths in functional genomics, developmental genetics, chromatin biology, and evolutionary genetics. The Department of Genetics is home to 30 full-time tenure track research and teaching faculty, two full-time lecturers, 10 postdocs, 57 graduate students, >225 undergraduate students as well as lab and office staff. There are outstanding opportunities for collaborations with faculty across life sciences departments, as well as access to the Georgia Genomics and Bioinformatics Core, the Biomedical Microscopy Core, and the Georgia Advanced Computing Resource Center. UGA is located in the vibrant city of Athens in the northern Piedmont region of Georgia. Athens is 65 miles east of Atlanta, less than two hours from the Chattahoochee National Forest and southern Appalachian Mountains, and within easy driving distance of the Atlantic coast. Athens is home to a thriving arts and music community and prides itself on its cultural diversity (http://www.visitathensga.com).

UGA and the Genetics Department are committed to

fostering an environment that is equitable and inclusive, and to increasing the diversity of its faculty and students. We welcome candidates who understand the barriers facing individuals underrepresented in the classroom and in higher education careers. We encourage applications from candidates who promote equity and diversity through teaching, mentoring, research, life experiences, educational background, or service.

A Ph.D. (or equivalent) in Genetics or a related field is required. Requirements for the full professor rank are outlined in the University Appointment, Promotion and Tenure Guidelines and the Promotion and Tenure Guidelines for the Department of Genetics. To be eligible for tenure upon appointment, candidates must be appointed as a Full Professor, have been tenured at a prior institution, and bring a demonstrably national reputation to the institution. Candidates must be approved for tenure upon appointment before hire.

Candidates should submit application materials electronically using this link: https://www.ugajobsearch.com/postings/285379. Applications must include: 1) cover letter, 2) curriculum vitae and 3) statement of leadership experience and vision for the Department of Genetics that addresses teaching, research, and diversity, equity, and inclusion. Candidates should also submit names and contact information for three references, who will be asked to provide letters of recommendation if the candidate is selected for an interview. Questions may be directed to the Search Committee at this email address: nathanael.caskey@uga.edu. All applications received by November 4, 2022, will receive full consideration, and review will continue until the position is filled.

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu).

Michael White <whitem@uga.edu>

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UGeorgia LabAssist SticklebackEvol

The laboratory of Mike White in the Department of Genetics at the University of Georgia is seeking applicants for a Laboratory Assistant to support research on the genetics and genomics of sex chromosomes in the threespine stickleback fish. The successful candidate will have the opportunity to work on a number of exciting evolutionary and developmental biology projects using a combination of molecular techniques (e.g. CRISPR/Cas9, transgenesis, PCR, RT-PCR, and cytogenetics) and bioinformatic techniques (e.g. PacBio and Illumina sequencing).

This position is ideal for recent graduates who are seeking additional research experience.

Duties and responsibilities: -Manage a small fish facility. -Assist with lab research projects. -Purchase, inventory, and organize lab supplies. -Participate in lab meetings. -Help train new lab members.

Qualifications: -Bachelor's degree in biology or a related field. -Experience with general molecular biology techniques (e.g. PCR, DNA extraction, RNA extraction, and running gels). -Proficiency with computers. -Highly organized and detail-oriented.

Interested candidates should apply at https://www.ugajobsearch.com/postings/288297 Please include a cover letter explaining qualifications and interest in the position, a CV, and contact information for three references.

For additional information about research in the lab, visit our website: https://mikewhitelab.org Please direct any questions to: whitem@uga.edu.

Mike White Associate Professor Department of Genetics University of Georgia whitem@uga.edu mikewhitelab.org

Michael White <whitem@uga.edu>

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UGothenburg BotanySystematics

Scientific Leader of Herbarium GB at the University of Gothenburg and Gothenburg Botanical Garden The position is as a professor of botany with a profile that includes taxonomy, systematics and plant geography.

The tasks include developing collaboration between the University of Gothenburg and the Gothenburg Botanical Garden, developing the roles of the activities in the mapping of botanical diversity, communicating the importance of herbaria and botanical gardens for conservation and sustainable use of biodiversity to the general public, authorities, decision-makers and media, and to broaden research activities based on the amount of information that the collections and their metadata constitute.

The duties include: - Conduct research and the scientific activities in general that are needed to maintain and develop the Gothenburg Botanical Garden and Herbarium GB at the University of Gothenburg as nationally and internationally strong institutions.

- Lead and initiate various projects where digital accessibility is in focus so that the collections constitute a knowledge resource for researchers, the general public and stakeholders in society.

- Actively apply for research grants, lead research groups, and supervise and examine doctoral students.

- Teach at basic and advanced level at the University of Gothenburg.

- Contribute to the availability of sufficient botanical expertise at the Herbarium and Botanical Garden and to the quality of scientific activities.

- Contribute to the plant collections at Herbarium GB and the Gothenburg Botanical Garden meeting the current needs of research and society and constitute a resource for future needs.

- Collaborate and create good relations with national and international actors such as natural history museums and research institutions, especially in the field of botany, and inform about research and development work nationally and internationally.

Furthermore, you are expected to participate in the university's and the botanical garden's activities and collaborate with the surrounding community, both in collaborative projects and in popular science activities.

You who do not have a university pedagogical education must undergo such within two years of admission to the employment. The university offers higher education pedagogical courses.

You should be able to teach in Swedish within two years. The university offers courses in Swedish.

Application Deadline: October 31th, 2022

For more details about the position see: https://web103.reachmee.com/ext/I005/-1035/job?site=7&lang=UK&validator=-9b89bead79bb7258ad55c8d75228e5b7&job_id=26009
Kent Kainulainen <kent.kainulainen@vgregion.se>

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UKansas Two Genomics

The Department of Molecular Biosciences at the University of Kansas invites applications for two faculty positions in Genomics at the tenure-track Assistant Professor level to begin August 2023.

We are seeking applications from outstanding researchers with innovative research programs in any area of genomics or genome biology using experimental, quantitative, and/or computational approaches. The Department of Molecular Biosciences provides a highly interactive, multi-disciplinary research environment that includes successful researchers in evolutionary genetics and genomics, computational biology, cell and developmental biology, neurobiology, microbiology, biochemistry, and cancer biology (http://molecularbiosciences.ku.edu). In addition, the University of Kansas has many excellent core facilities, for example in genome sequencing and analysis, high-throughput screening, and microscopy, that facilitate and enhance departmental research.

The University of Kansas recently launched the KU Center for Genomics, a multidisciplinary center coalescing the strengths in genomics across several groups at KU (Molecular Biosciences, Ecology and Evolutionary Biology, Anthropology, Lifespan Institute, Engineering). The successful candidate will be integrated into the Center and benefit from the collegial, collaborative research environment the Center provides. These searches are made possible in part by the recent Genomics Research Rising award through the KU Office of Research.

The University of Kansas is a member of the presti-

gious Association of American Universities. KU is a major educational and research institution located in Lawrence, a vibrant, thriving community of more than 90,000 close to Kansas City and the KU Medical Center. The university and department aspire to become leaders among their peer institutions in empowering faculty to make meaningful and lasting progress ensuring a diverse and equitable community with a universal sense of inclusion and belonging. In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the university actively encourages applications from members of underrepresented groups in higher education. KU's vision is to be an exceptional learning community that lifts each other and advances society. The Jayhawks Rising Strategic Plan was developed around three Institutional Priorities: creating a clear and ambitious direction to fulfill our mission to educate leaders, build healthy communities, and make discoveries that change the world. Additional information is available at https://jayhawksrising.ku.edu/ . KU's research residential campus is in the center of a vibrant and culturally-rich community ? a quintessential college town. Visitors, students and new employees from outside the area enjoy discovering the many wonders of Lawrence, including a thriving downtown, diverse local and regional events, area lakes, vibrant arts and music scenes, and an indelible history. Home to nearly 95,000 people, Lawrence is located 45 minutes west of Kansas City and 30 minutes east of Topeka, the state capital. Along with the music, arts, culture and sports experiences offered at KU and in Lawrence, the short drive to Kansas City provides quick access to historic jazz clubs, museums, world-class music and theatre venues, and professional sports teams.

Job Description Position Overview continued: About the College The College emphasizes interdisciplinary, experiential learning and global awareness, houses a vibrant university wide Honors Program that highlights undergraduate research and service activities, and has created strong affiliations with outstanding cross-disciplinary research centers. Faculty and academic staff have emphasized the importance of continuing and expanding on relationships with centers and entities including the Biodiversity Institute, Kansas Biological Survey, Kansas Geological Survey, the Hall Center for the Humanities, the Life Span Institute, the Institute for Policy and Social Research, the Spencer Museum of Art and the Natural History Museum. These relationships have brought a broad range of disciplines together to pursue and conduct sponsored research and education at the international, national, state, regional and local levels, and have created employment structures in which faculty and academic staff share appointments to emphasize collaboration. College faculty and research staff are welcomed as members in all KU's designated research centers and institutes. The College is home to internationally recognized scholars and scientists who brought in $44M in research funding in FY 2021, nearly 30% of the total funded research at KU Lawrence.

Applicants must have a PhD in genetics, genomics, or a related discipline, as well as postdoctoral research experience. Applicants should demonstrate

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UKentucky InsectConservation

Assistant Professor of Urban Landscape Entomology
Department of Entomology, University of Kentucky

Position: Assistant Professor of Urban Landscape Entomology, twelve-month, tenure-eligible appointment in the regular title series with an anticipated distribution of effort of research (75%), instruction (20%), and service (5%).

Description: The Department of Entomology at the University of Kentucky invites applicants for a tenure-eligible faculty position in urban landscape entomology. The ideal candidate will develop a creative research and teaching program focused on understanding urban landscape arthropods while considering stakeholder needs. Areas of emphasis could include but are not limited to restoration, conservation, improving ecosystem services, implementing innovative management strategies, and/or decreasing reliance on conventional chemical pest management. We seek a solutions-oriented candidate who will use ecological, genetic, geographic, computational, microbial and/or other innovative tools to address landscape pest problems in urban settings. Enthusiasm for interdisciplinary collaboration is particularly encouraged. The successful candidate will have broad knowledge of arthropod biology, ecology, interactions with plants and microbes, and/or arthropod interactions with the built environment. Expertise in biological control, invasive or emerging pests, and/or horticultural systems are strengths.

Selection criteria will include complementarity with existing departmental expertise, enthusiasm for teaching

and mentorship, and an ability to interact with stakeholder groups (including K-12 institutions). Candidates with demonstrated experience translating research findings into management strategies relevant to urban landscapes are particularly encouraged to apply. In addition to conducting research, this position includes teaching up to two courses per year, including Horticultural Entomology, Integrated Pest Management, and/or Biological Control, and a new course in the candidate's area of expertise. Other responsibilities will include advising graduate students and contributing to department, college, and university governance.

The Environment: The College of Agriculture, Food and Environment (CAFE) is fulfilling the land-grant promise of educational excellence, civic leadership, transformational research, and shared knowledge serving the common good. We serve the people of the Commonwealth and across the world through education, outreach, service, and research by finding solutions to improve lives today and create a sustainable future. We integrate teaching, research, and extension in our work. We recruit, retain, and graduate students who are competent, responsible, and workforce ready. For more than 130 years, CAFE has provided research results to the community. From traditional labs and research farms to high-tech diagnostic and research centers, we offer science-based, practical solutions that affect the everyday lives of Kentuckians and people around the world. Our Cooperative Extension programs are engaged in Kentucky's 120 counties, identifying and addressing needs not only in agriculture and natural resources, but also 4-H and youth development, family and consumer sciences, as well as community & economic development. We create a welcoming and inclusive environment that allows our faculty, staff, and students to reach their highest potential. We recognize people with diverse backgrounds and experiences are essential to decision making, problem solving, and innovation each and every day.

The University of Kentucky is a university with approximately 23,000 undergraduate and 8,900 graduate students. UK is Kentucky's flagship university and a land grant institution. We have a university commitment to improve the lives of Kentuckians and beyond and that is why environmental stewardship and sustainability are core parts of our institution's legacy. We are recognized as a Tree Campus USA by the Arbor Day Foundation, a Gold level Bicycle Friendly University by The League of American Bicyclists, and are recognized as a STARS (Sustainability Tracking, Assessment & Rating System) Silver Rating by the Association for the Advancement of Sustainability in Higher Education. The university is geographically near downtown Lexington, which offers the vibrancy of an urban location while being in close proximity to working landscapes and recognized wilderness areas. It is a thriving community of 320,000+ with a strong commitment to quality of life, education, and the arts. Lexington is in the Bluegrass Region, an internationally acclaimed cultural landscape and agricultural region.

Qualifications: The successful applicant must have a Ph.D. in Entomology or related discipline with demonstrated experience in research, seeking external funding, teaching, and communicating with the scientific community and relevant stakeholder groups.

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ULisboai Ce3C ResTech EvolBiolCellCulture

OPEN CALL

One position for Research Technician with a Master degree is open at FCiências.ID - Associação para a Investigação e Desenvolvimento de Ciências, within the scope of the project HYBRIDOMICS: Can hybridization fuel adaptation and species response to environmental change? Genomics and proteomics of endemic Iberian freshwater fish (Ref. PTDC/BIA-EVL/4345/2021), financed by Fundação para a Ciência e a Tecnologia, I.P./MCTES.

The present call will be open from 18th October to 15th November 2022

I. Admission Requirements

Portuguese nationals, foreign and stateless persons may submit applications to this selection procedure, provided they hold a Master degree1 in Biology, Biochemistry or similar areas, and fully comply with the following requirements:

* a) The candidate must have demonstrated experience (within e.g., a project and/or thesis) in cell and/or tissues animal cultures, specifically knowledge of laboratory techniques for culture establishment and maintenance - information provided on the CV and/or motivation letter. * b) Proficiency in English (written

and spoken) - information provided on the CV and/or motivation letter.

1 Please note that Degrees obtained in foreign countries need a Portuguese Recognition issued by a Portuguese high degree Institution, according to the Decree-Law nr. 66/2018 < https://dre.pt/web/guest/pesquisa/-/search/116068880/details/maximized?res=en >, of August 16th and the Ministerial Order nr. 33/2019 < https://dre.pt/web/guest/pesquisa/-/search/118484592/details/normal?q=portaria+33%2F2019 >, of January 25th. The presentation of such Recognition is mandatory for contract signature. More information can be obtained in: https://www.dges.gov.pt/en/pagina/-degree-and-diploma-recognition . II. Preferential Requirements

* a) R&D activity in the laboratory, including cell cultures and animal experimentation - information provided on the CV and/or motivation letter; * b) Other professional experience in laboratory management - information provided on the CV and/or motivation letter; * c) Knowledge of molecular biology techniques (e.g. extraction, purification and quantification of nucleic acids, PCR, etc.) - information provided on the CV and/or motivation letter.

IV. Work plan

The work plan includes the following tasks: 1) establishment and maintenance of cell lines derived from tissues from freshwater fish (e.g., fin-clip derived fibroblasts and hepatocytes derived from liver); 2) perform experiments with cell lines in controlled conditions; 3) maintenance and manipulation of animals in the animal facility (freshwater fish); 4) laboratory management, specifically ensuring orders, management of consumables and reagent stock, ensuring the maintenance of a clean cell culture room.

The work plan is included in task 2, 5, 6 and 7 of the project HYBRIDOMICS: Can hybridization fuel adaptation and species response to environmental change? Genomics and proteomics of endemic Iberian freshwater fish (Ref. PTDC/BIA-EVL/4345/2021).

V. Composition of the Jury

The members of the jury are:

* President - Prof. Vítor Sousa (cE3c, FCUL); * 1st Member of the jury - Dr. Alexandre Blanckaert (cE3c, FCUL); * 2nd Member of the jury - Joāo Moreno (cE3c, FCUL); * 1st Alternate Member of the jury - Dr. Bruno Nevado (cE3c, FCUL); * 2nd Alternate Member of the jury - Prof. Sara Magalhāes (cE3c, FCUL).

VI. Place of work

Work will be developed at the facilities of Research Center cE3c - Centre for Ecology, Evolution and Environmental Changes, in Campo Grande, Lisboa, Portugal.

VII. Contract Duration

The full-time indefinite duration fixed-term employment contract is expected to start in December 2022, and will last until the Work Plan referred to in section IV is completed. It will have an expected duration of 12 months, will not exceed the limits set in the RCD, including an initial experimental trial period of 30 days.

XI. Submission of Applications

1. The present call will be open from 18th October to 15th November 2022. 2. The application and all the required documents may be submitted in Portuguese or English. 3. Applications will be submitted online, through the electronic platform of FCiências.ID (http://concursos.fciencias-id.pt).

More info: https://euraxess.ec.europa.eu/jobs/851642 best regards

Evolutionary Genomics and Bioinformatics

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UMaryland Tech GeneticsofMarineAnimals

Faculty Research Assistant I, Horn Pt. Laboratory, University of Maryland Center for Environmental Science, Cambridge MD.

https://umces.peopleadmin.com/postings/1615 Description: The Plough Laboratory at Horn Point Lab of the University of Maryland Center for Environmental Science (UMCES) seeks a Faculty Research Assistant to assist with grant-funded projects related to the population genetic analyses of estuarine and marine animals, particularly invertebrates (blue crabs, oysters, zooplankton). Laboratory duties will include tissue preservation and DNA extraction, environmental DNA sampling, quantitative PCR and analysis, and preparation of genomic libraries for next-generation sequencing (NGS). The technician may also be involved in field work (local) collecting animals on small craft or from shore, and will assist with finfish care and shellfish culturing at

HPL. Finally, the technician will be expected to assist in data organization / analysis and preparation of reports / manuscripts. Funding is currently available for two years with additional time possible dependent on future funding.

Minimum Qualifications: BA or BS degree in biological sciences AND laboratory experience in molecular genetics (e.g. PCR, agarose gel electropheresis, DNA extraction; ideally in a research setting), handling of large datasets in spreadsheets, and familiarity / experience with biostatistical analysis using software sch as R or similar. A willingness to be in the field for short periods of time (day trips) and to manage live cultures of larvae or fish is also required.

Preferred Qualifications: Ideal applicants will have some prior experience preparing next generation sequencing libraries and some familiarity with UNIX / Linux for command-line processing of genomic data sets. Some experience with animal culture or care (especially larval shellfish culture) is also a plus.

Physical demands: Field work may include light duty lifting (<50 pounds), work on small boats (<25 ft) and walking short distances between sample sites in lightly or heavily wooded areas. Routine lab work may include the use of chemical that require gloves, proper clothing, and eye protection.

EEO info: The University of Maryland Center for Environmental Science is an equal opportunity employer. The Center's policies, programs, and activities are in conformance with pertinent Federal and State laws and regulations on nondiscrimination regarding race, color, religion, age, national origin, sex, and disability. Inquiries regarding compliance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments; Section 504 of the Rehabilitation Act of 1973; and the Americans with Disabilities Act of 1990; or related legal requirements should be directed to the Director of Human Relations, Center Administration, P.O. Box 775, Cambridge, MD 21613.

New Hires are required to submit proof of COVID-19 vaccination or have an approved medical or religious exemption on file with HR.

University Info: The University of Maryland Center for Environmental Science unleashes the power of science to transform the way society understands and manages the environment. By conducting cutting-edge research into today's most pressing environmental problems, we are developing new ideas to help guide our state, nation, and world toward a more environmentally sustainable future through five research centers the Appalachian Laboratory in Frostburg, the Chesapeake Biological Laboratory in Solomons, the Horn Point Laboratory in Cambridge, the Institute of Marine and Environmental Technology in Baltimore, and the Maryland Sea Grant College in College Park. www.umces.edu Additional Information: See job posting at https://umces.peopleadmin.com/-postings/1615 "Plough, Louis" <lplough@umces.edu>

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UMichigan Two CollectionManagers

Summary

The Department of Ecology and Evolutionary Biology (EEB) is seeking a Collection Manager of Vascular Plants at the University of Michigan Herbarium (https:/-/lsa.umich.edu/herbarium), located at the new Research Museums Center (RMC) in Ann Arbor, Michigan. The Herbarium develops and maintains collections explicitly for use in research and education, benefiting science, society, and the university at large. The scientific role of the Herbarium is to train students and engage in systematic biology and biodiversity studies. These broad and overlapping fields entail the discovery and study of the diversity of organisms, their evolutionary relationships, and the processes that generate biodiversity. EEB has an outstanding, diverse and collaborative group of researchers in evolutionary biology, ecology, and biodiversity science.

The U-M Herbarium is worldwide in its geographic scope and is the second largest public university collection in North America, comprising about 1.75 million specimens. The collection is particularly strong in Michigan and the Great Lakes region, Mexico, and southeast Asia (esp. Sumatra, Philippines) and includes major holdings from all major plant and fungal groups; see also https:/-/lsa.umich.edu/herbarium/collections.html . We seek candidates with a strong commitment to a vision of the Herbarium Collection as a key resource for research and education within the University and to the botanical community nationally and internationally. The position offers exciting opportunities for mentoring, and career development, including limited research within the context of the Herbarium curatorial priorities.

Mission Statement

The mission of the University of Michigan is to serve the people of Michigan and the world through preeminence in creating, communicating, preserving and applying

knowledge, art, and academic values, and in developing leaders and citizens who will challenge the present and enrich the future.

Responsibilities*

- Diversification, Conservation, and Digitization of the vascular plant collections, including dried specimens, genetic resources, and ancillary collections such as paper archives, field notes, and digital assets such as data records and photographs. Additional activities may include coordinating and contributing directly to digitization efforts, writing collection-based grants to support the Herbarium, and participating in regional or national botanical initiatives.

- Working with faculty curators to develop and implement policies, standards, and procedures. This involves, as necessary, developing/revising standard operating procedures for acquisition, accessioning, databasing, archiving, and use of new or emerging genomic, digital resources and other ancillary collections. Reviewing, updating, and enhancing the Herbarium collections management plan.

- Accessioning and cataloguing of new specimens, tissues and ancillary collections into the collection and the electronic database. This activity includes coordinating curatorial priorities with faculty curators, permit requirements with the Registrar, and the daily management of staff workers, workstudy students, graduate curatorial assistants and other personnel.

- Support of and coordination with faculty curators, student researchers and visiting collaborating researchers to plan and develop research projects utilizing the research collections and/or enhance collection resources.

- Training and supervision of volunteers, student assistants, and graduate curatorial assistants in all aspects of plant specimen preparation and conservation practices, data entry, geo-referencing and digital imaging of specimens and routine collections maintenance tasks.

- Coordinate and process inter-departmental and inter-institutional loans and exchanges. Activities include answering inquiries from researchers, maintaining transaction records, packing and unpacking of specimens, and working with the Registrar in complying with state, federal and international permit requirements when appropriate, as well as the electronic exchange of digitized information.

- Routine maintenance and updating of records in the Specify collection database and coordinating the Herbarium presence on regional, national, and international data portals.

- Development of plant genomic resources in the Liquid Nitrogen Facility. This activity involves the accessioning of new samples, database cross-referencing to voucher specimens, as well as development and maintenance of database records on genomic resources in the Herbarium.

- Maintenance of the collection areas and equipment to make them suitable for collection preservation, research, outreach, and use by visitors, either on site or remotely through online communication.

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UMinnesota EvolutionaryBiology

The Department of Ecology, Evolution and Behavior (https://cbs.umn.edu/academics/departments/eeb) in the College of Biological Sciences at the University of Minnesota-Twin Cities invites applications for a tenure-track Assistant Professor position. The position is a 9-month, 100% appointment. The Department, having 29 faculty members, and its associated Graduate Program, comprising about 30 additional faculty and 60 graduate students, are internationally recognized for research addressing foundational questions as well as issues of pressing societal concern. The Department's strengths encompass varied dimensions of behavior, evolution, and ecology, and we value scholarly work that deepens understanding within or integrates across these fields. We especially encourage applications from those with research programs that have a substantial component of field research. We are striving to advance equity and inclusion in our fields. In seeking a creative colleague, we welcome applications from individuals identifying as belonging to minoritized groups, and/or who have a record of mentoring and teaching that aim to reduce barriers to entry into our fields of study.

The successful candidate will be expected to establish a vigorous, extramurally funded research program, participate in addressing teaching needs of the College of Biological Sciences at the undergraduate and graduate levels, and to provide academic service within and outside of the university. The University of Minnesota ?¿‘ Twin Cities is a large, metropolitan institution with ready access to areas for conducting field research. Opportunities abound for interdisciplinary research with

EEB faculty and in numerous other departments and colleges.

Applications received by November 8 are guaranteed full consideration.

To apply:

To https://hr.myu.umn.edu/jobs/ext/352255, please submit a letter expressing your interest in joining EEB at the University of Minnesota; anonymized statements (no more than 3 pages for each) outlining your research (accomplished and planned), teaching philosophy, and approaches to advancing diversity, equity, inclusion and justice; your Curriculum vitae (including names and contact information of four individuals who can provide letters of recommendation); pdf copies of up to three papers that you consider your most significant scholarly contributions to date.

In order to achieve inclusion for all students, faculty and staff, the College of Biological Sciences is committed to the foundational scientific practice of examining assumptions and biases. The College of Biological Sciences community believes that a self-aware science community, active institutional efforts and individual advocacy will help remove barriers to the success of all community members across differences, including race, ethnicity, gender identity and expression, sexual orientation, disability, geography, and socioeconomic status or background. (CBS Diversity Statement)

The University of Minnesota shall provide equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. (Updated EOAA statement)

Ruth G. Shaw She/Her/Hers

Professor, Dept of Ecology, Evolution and Behavior Director of Graduate Studies, Ecology, Evolution and Behavior Graduate Program Resident Fellow, Minnesota Center for Philosophy of Science https://-ruthgshaw.wordpress.com/ 612 624 7206

Mail to: 1479 Gortner Ave., 140 Gortner Laboratory University of Minnesota St. Paul MN 55108

shawx016@umn.edu

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UNebraska EvolutionaryGenetics

ASSISTANT PROFESSOR in Genes, Genomes and Evolution UNIVERSITY OF NEBRASKA-LINCOLN SCHOOL OF BIOLOGICAL SCIENCES

The School of Biological Sciences (SBS), in the College of Arts and Sciences (CAS), at the University of Nebraska-Lincoln (UNL) invites applications for an academic-year, tenure-track, assistant professor position in Genes, Genomes, and Evolution. The successful candidate will work to decipher the map between genes and traits in an evolutionary context, using integrative or multi-level approaches. This position will play a key role in furthering SBS goals to integrate across biological levels to understand how organisms develop, function, interact with, and adapt to their environment. This is the first of what is expected to be a cluster of at least two faculty in this area.

The successful candidate will demonstrate a strong record of original research as evidenced by peer-reviewed publications. They will be expected to contribute toward the university's mission to promote diversity and inclusive excellence, establish a nationally recognized and extramurally funded research program, be dedicated to education at the undergraduate and graduate levels, and be committed to inclusive teaching.

A Ph.D. in biology or a related discipline; research experience in genes, genomes, and evolution, as evidenced by peer-reviewed publications; and postdoctoral or equivalent training are required. Preference will be given to candidates with a demonstrated commitment to DEI (assessed with rubric based on https://ofew.berkeley.edu/recruitment/contributions-diversity/rubric-assessing-candidate-contributions-diversity[1]equity); the ability to build upon and expand existing research in SBS (biosci.unl.edu); a commitment to teaching at the undergrad and graduate levels; and the likelihood of success at intramural grants, judged by the research statement.

The successful candidate will receive dedicated lab and office space and a competitive start-up package and will have the opportunity to collaborate with an accomplished group of biologists in SBS, the Nebraska Center for Virology, and other units across the UNL campus and the University of Nebraska system. The School of Biological Sciences offers a collaborative, interdisciplinary, and welcoming place to work. As articulated in

our strategic plans, SBS, CAS, and UNL are committed to enhancing diversity, inclusion, and equity in all aspects of our mission from undergraduate and graduate students to faculty and staff.

The city of Lincoln, Nebraska provides an outstanding quality of life that includes a vibrant downtown with a lively music and art scene, a collection of over 120 parks, and 130 miles of bike trails, plus a low cost of living. Learn more about the city of Lincoln at https://www.unl.edu/lincoln/about-lincoln . Review of applications will begin on December 1, 2022 and will continue until the position is filled or the search is closed. Applicants should go to https://employment.unl.edu, requisition F_220197, complete the Faculty

Academic/Administrative Information form, and upload the following documents: (1) a cover letter highlighting the candidate's interest in the position and their qualifications; (2) a Curriculum Vitae; (3) a document with research, teaching, and diversity statements; and (4) the names and contact information for three references. The research statement should be no more than two pages and should describe research interests and detail future plans. The one-page teaching statement should summarize instructional strategies, experience, and interests. The diversity statement should be no more than one page and should describe past experiences with efforts to advance diversity, equity, and inclusion as well as plans for future efforts. Combine the three statements into a single document for upload. Questions regarding the application process may be sent to biologysearch@unl.edu.

UNL seeks to achieve a working and learning environment that is open to all people. Dignity and respect for all in the UNL community are the responsibility of each individual member of the community. The realization of that responsibility across the campus is critical to UNL's success.

As an EO/AA employer, the University of Nebraska considers qualified applicants for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See https://www.unl.edu/equity/notice-nondiscrimination . Jay Storz <jstorz2@unl.edu>

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UNevada LasVegas EvolutionaryBiology

Assistant Professor in Ecological and Evolutionary Biology, School of Life Sciences at The University of Nevada, Las Vegas

R0133619 Assistant Professor in Ecological and Evolutionary Biology, School of Life Sciences < https://nshe.wd1.myworkdayjobs.com/UNLV-External/job/-UNLV1-Main-Campus-Las-Vegas/Assistant-Professor-in-Ecological-and-Evolutionary-Biology–School-of-Life-Sciences–R0133619-_R0133619-1 >

The School of Life Sciences at the University of Nevada, Las Vegas invites applications for a tenure-track Assistant Professor in Ecological and Evolutionary Biology. The successful applicant is expected to investigate fundamental questions about organisms in terrestrial or freshwater ecosystems, with a strong emphasis on data-intensive research. Possible areas include ecological/organismal modeling, spatial analysis, phylogenomics, population genomics, and metadata analysis. Research with a field component in western North America and the potential to collaborate with researchers at the School of Life Sciences will be considered favorably. The selected candidate is expected to establish a rigorous research program supported by extramural funding, generate peer-reviewed scholarship, mentor and advise graduate students, teach effectively at the undergraduate and graduate levels, and engage in service activities.

MINIMUM QUALIFICATIONS This position requires a Ph.D. in biological sciences or a closely related field from an accredited college or university as recognized by the United States Department of Education and/or the Council on Higher Education Accreditation (CHEA). The successful candidate will demonstrate a proven record of research accomplishment.

PREFERRED QUALIFICATIONS Post-doctoral research training will be considered favorably.

COMMITMENT to DIVERSITY The successful candidate will demonstrate support for diversity, equity and inclusiveness as well as participate in maintaining a respectful, positive work environment. Candidates from historically underrepresented groups in biology are strongly encouraged to apply.

HOW TO APPLY

Submit: - Cover letter (up to 2 pages) - Curriculum vitae - Research statement (up to 2 pages) - Teaching and mentoring statement (up to 1 page) - Diversity statement (up to 1 page) - Names, addresses, emails, and telephone numbers of at least three professional references who may be contacted. References will not be contacted until the search chair notifies you in advance.

Although this position will remain open until filled, review of candidates' materials will begin on December 15, 2022.

Materials should be addressed to Dr. Jef Jaeger, Search Committee Chair, and must be submitted through Workday, as we do not accept emailed materials. Workday link:

R0133619 Assistant Professor in Ecological and Evolutionary Biology, School of Life Sciences < https://-/nshe.wd1.myworkdayjobs.com/UNLV-External/job/-UNLV1-Main-Campus-Las-Vegas/Assistant-Professor-in-Ecological-and-Evolutionary-Biology–School-of-Life-Sciences–R0133619-_R0133619-1 >

For assistance with the application process, please contact UNLV Human Resources at (702) 895-3504 or UNLVJobs@unlv.edu.

Donald Price <donald.price@unlv.edu>

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UNevada LosVegas MicrobialEnvironmentalGenomics

Microbial Environmental Genomics, Assistant Professor, School of Life Sciences at UNLV

The ideal candidate for this tenure-track assistant professor will apply genomics approaches (single-cell genomics, metagenomics, and/or functional genomics) to explore biodiversity and understand the roles of microorganisms in any natural environment. Research areas that complement current strengths in SoLS and other programs at UNLV are desirable. The successful candidate will hold a Ph.D. degree or equivalent in microbiology or a related field. Postdoctoral experience is preferred. Faculty members are expected to develop and maintain a vigorous, externally funded research program and teach at the undergraduate and graduate levels.

The successful candidate is expected to align with the research and teaching missions of SoLS and is expected to: 1) Design and sustain a high-impact research program that is extramurally funded and internationally recognized, and 2) Contribute to both graduate and undergraduate education through formal teaching and mentoring. Teaching strategies that are inclusive of UNLV's culturally rich environment are encouraged. The candidate is expected to mentor graduate students in the Ph.D. and/or Master's programs and to participate in service at the local, national, and international levels. Read the full posting at:Assistant Professor in Microbial Environmental Genomics, School of Life Sciences, College of Sciences [R0133313] (myworkdayjobs.com)

https://nshe.wd1.myworkdayjobs.com/en-US/UNLV-External/job/Assistant-Professor-in-Microbial-Environmental-Genomics–School-of-Life-Sciences–College-of-Sciences–R0133313-_R0133313 Donald Price <donald.price@unlv.edu>

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UNorthCarolina ChapelHill Two Biodiversity

Dear Colleagues,

I'm excited to announce that the Department of Biology at UNC Chapel Hill invites applications for TWO tenure-track positions in Biodiversity at the Assistant Professor level!

Global Change Biology: The successful applicant will have experience working to address fundamental issues in how individuals, populations, species, or biological communities are responding to global change. We are particularly interested in those whose approach is integrative, potentially combining experiments, observational studies, and/or computational methods to analyze both biological and environmental processes across multiple spatial and temporal scales.

Ecoinformatics: The successful applicant will have a demonstrated record of success in answering fundamental questions in biodiversity using data-intensive approaches. We are particularly interested in those developing mathematical, computational, and statistical approaches that account for the biases and challenges inherent to large datasets to reveal the complex evolutionary and ecological processes that shape real-world patterns.

UNC is a great place to work and the Triangle of North Carolina is a spectacular place to live. Please forward to any interested colleagues.

Thank you!

Allen Hurlbert Professor Department of Biology Director of Graduate Studies Environment, Ecology and Energy Program University of North Carolina

"Hurlbert, Allen Hartley" <Hurlbert@bio.unc.edu>

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UNorthCarolina Wilmington LabManager MarineGenomics

Dear all - The Halanych lab is looking for a lab manager with genomics and bioinformatic experience. The position will be housed at the University of North Carolina Wilmington's Center for Marine Science. Wilmington is a mid-sized city on the Carolina Coast and is an amazing place to live (https://www.wilmingtonandbeaches.com/-)

Please see the full job description at this link:

https://jobs.uncw.edu/postings/26229 Applications are due October 26th.

If you have questions, please ask - An individual with a Master's degree (or better) is preferred.

This position is supported by the University to oversee and maintain the operations and the operational status of the Halanych Laboratory focused on genomics and informatics of marine invertebrates.

The primary role of this Laboratory Manager position is to manage and supervise all activities necessary to operate a genomics and informatics lab and research activities. Work requires knowledge of strategies for the genomic data collection, bioinformatic techniques and analyses, and fieldwork.

The range of duties includes but is not limited to facility maintenance and operations, maintenance of research equipment, staff supervision, some fiscal, human resources, and administrative services, and oversight of field and laboratory operations, including regulatory requirements. This position will function both independently and as a member of a team, frequently serving a lead role in supervising students and other technicians in the accomplishment of all phases of scientific research. Bachelor's degree in a discipline related to the area of assignment + 1 year of directly related experience; or equivalent combination of training and/or related experience. All degrees must be received from appropriately accredited institutions.

* Bachelors in life sciences or marine sciences and/or a Master's degree in life sciences or marine sciences with several years of experience in genomic and bioinformatic sciences * Some experience coding and working with high-throughput sequence data is required * Experience with genomic laboratory techniques * Knowledge and experience in genomics and bioinformatics, preferably with marine organisms. Knowledge of coding and building bioinformatic pipelines * Organizational abilities with regard to data management * Understanding and experience with high-throughput sequencing and genomic tools and techniques * Ability to work and communicate effectively in a group environment, oversee a team working together to achieve safe and efficient operation with a research laboratory environment * Ability to keep detailed and accurate accounts of operations and to report these effectively in a group environment * Ability to exercise good judgment when encountering evidence of problems and ability to problem solve * Appropriate judgement and willingness to seek advice and help from supervisor or colleague

Kenneth M. Halanych. – halanychk@uncw.edu Executive Director Center for Marine Science University of North Carolina Wilmington

"Halanych, Kenneth M" <halanychk@uncw.edu>

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UNottingham VertebrateGenomics

The School of Life Sciences (SoLS), University of Nottingham seeks to make a permanent appointment of an Assistant/Associate Professor in the area of âGenomics', encompassing the genetics and genomics of humans and/or vertebrate model systems. International applicants are very welcome. We are looking for an outstanding research scientist, with an ambitious vision, who is passionate about teaching and has a collegial attitude. The University of Nottingham is a globally high-ranking, research-led, cosmopolitan institution in the UK Russell Group, with outstanding research facilities and employment conditions. We were 7th in the UK for âpower' in

the 2021 Research Excellence Framework. The School offers a welcoming and dynamic research and teaching environment, with broad strengths across biology.

Your research will address questions in the genetics and genomics of humans and/or model vertebrates. We are especially interested in applications from those whose research links –omics data with laboratory experimentation and/or computational methods. The post will offer opportunities for shaping the future of genomics in Nottingham.

You will have a Ph.D. or equivalent degree in a relevant subject, a successful track record of achievement and impact with the ability to lead an exciting and innovative research programme. You will have an enthusiasm and aptitude for teaching in the area of genetics, biology and/or zoology at undergraduate and postgraduate levels. We seek collegial applicants who are committed to fostering an inclusive research culture and to the effective functioning of our division and school.

You will be based in the Division of Cells, Organisms and Molecular Genetics (COMGen), which has particular strengths in the genetics of human disease, bioinformatics, evolutionary and developmental biology and biotechnology. Of particular relevance to this post, colleagues in COMGen run the DeepSeq sequencing platform, which has an international reputation for long-read sequencing. The University of Nottingham also has excellent animal house facilities for model vertebrate studies.

SoLS is a large, diverse and supportive unit and provides a formal mentorship scheme and extensive collaborative opportunities. There are further diverse opportunities for collaboration across the faculties of Medicine and Science, and in the Nottingham University Hospitals NHS Trust.

SoLS holds an Athena Silver SWAN Award, in recognition of our commitment to supporting and advancing gender equality in the Life Sciences. You can read more about this initiative at http://www.nottingham.ac.uk/-life-sciences/documents/athena-swan-silver-award.pdf This role is available on a permanent basis. Hours of work are full time (36.25 hours).

Starting salary is dependent on the level of appointment. Assistant Professorships will start in the range of Â£37,467 - Â£50,296 pa; Associate Professorships will start in the range of Â£53,348 - Â£63,668 pa.

For details of how to apply, please see https:/-/jobs.nottingham.ac.uk/vacancy.aspx?ref=-MED114622X1. The < https://jobs.nottingham.ac.uk/-vacancy.aspx?ref=MED114622X1.%20The > closing date for applications is 31 October 2022. References and CVs will only be taken up after short-listing. Short-listed candidates will be invited to visit the Department, give a seminar and attend a formal interview in person in November/December 2022. We expect the position to be filled by 1st August 2023.

Informal enquiries may be addressed to andrew.maccoll@nottingham.ac.uk. Please note that applications sent directly to this email address will not be accepted.

Please contact me directly should you have any questions regarding this matter.

Best wishes Andrew MacColl

Professor of Evolutionary Ecology School of Life Sciences University of Nottingham University Park Nottingham NG7 2RD, U.K. Tel: +44 115 951 3410 http:/-/ecology.nottingham.ac.uk/AndrewMacColl/index.php Andrew Maccoll <Andrew.Maccoll@nottingham.ac.uk>

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UTulsa GeneticsGenomics

University of Tulsa - Assistant or Associate Professor of Genetics/Genomics

The Department of Biological Science at The University of Tulsa invites applications for a tenure-track Professor position at the Assistant or Associate level with demonstrated expertise in genetics/genomics. We seek a creative and interactive individual working on fundamental problems that include a laboratory and/or field component. We anticipate a Fall 2023 start date for this position.

The successful applicant is expected to have a Ph.D. and post-doctoral experience, and to establish a vigorous extramurally funded research program involving both undergraduate and graduate students. Teaching responsibilities will include a general genetics course, and developing appropriate upper-level/graduate courses in their area of expertise.

Applicants should submit the following documents through TU?s online applications portal (http://-universitytulsa.peopleadmin.com) cover letter, curriculum vitae, statements of diversity, research, and teaching, three representative publications, and names and complete contact information for three references.

Inquiries may be directed to genetics_search@utulsa.edu

For full consideration applications should be received by 24 October 2022.

The University of Tulsa seeks to recruit and retain talented students, faculty and staff from diverse backgrounds. The University of Tulsa is an affirmative action/equal opportunity employer and encourages qualified candidates across all group demographics to apply. The University does not discriminate on the basis of personal status or group characteristic including, but not limited to race, color, religion, national or ethnic origin, age, sex, disability, veteran status, sexual orientation, gender identity or expression, genetic information, ancestry, or marital status. The University of Tulsa is an Equal Opportunity Employer including Disability/ Veteran.

Ronald Bonett <ron-bonett@utulsa.edu>

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UVermont PlantSystematics Evolution

DESCRIPTION:

The Department of Plant Biology at the University of Vermont (UVM) invites applications for a tenure-track Assistant Professor position in Plant Evolutionary Biology/Systematics with an emphasis on collections-based research. The Plant Biology department has an active research program that spans genes to ecosystems, and houses the Pringle Herbarium, New England's third largest herbarium with a geographic focus on Vermont and the New World tropics. Our department is strongly committed to the success of junior faculty, and we envision a new colleague that shares our commitment to mentoring and supporting trainees from diverse backgrounds. We seek applicants who will establish an innovative, interdisciplinary, inclusive, and nationally-recognized research program in Collections-Based Plant Biology/Systematics that will complement existing strengths within the department and attract extramural funding. "Collections-based" refers broadly to any field that takes advantage of, or contributes to, the Pringle or other herbarium collections, including systematics, phylogenetics, ecophysiology, comparative genomics, etc. The successful candidate is expected to contribute to our undergraduate and graduate programs through effective instruction in established and newly developed courses based on their expertise. The successful candidate will also serve as an academic advisor to undergraduate and graduate students and will be required to provide service to UVM and the wider academic community. UVM service will include participating in the running of the Pringle Herbarium.

QUALIFICATIONS:

Applicants should have a PhD in ecology, evolution, systematics, or a related field; and at least some post-doctoral experience. They should demonstrate a clear vision for their collections-based research program, a strong track-record of research productivity and innovation, an interest in teaching and mentoring at the undergraduate to graduate level, and a commitment to advancing diversity, equity and inclusion.

APPLICATIONS:

Applicants should apply online at www.uvmjobs.com posting # F2422PO. UVM is especially interested in candidates who can contribute to the diversity and inclusive excellence of the academic community through their teaching, service, and research, scholarship, or creative arts. A letter of application, curriculum vitae, statement of interests and vision regarding research and teaching, and a statement on advancing diversity and inclusive excellence should all be attached electronically to the online application. Additionally, applicants should enter in the application names and email addresses for three individuals who will provide letters of reference.

Review of applications will begin on November 14, 2022. Questions may be directed to the Search Committee Chair, Dr. Jill Preston (Jill.Preston@uvm.edu) or the Department Chair, Dr. Jeanne Harris (Jeanne.Harris@uvm.edu).

UVM aspires to be a community that values respect, integrity, innovation, openness, justice, and responsibility, as per Our Common Ground (https://www.uvm.edu/-president/our-common-ground). UVM is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other category legally protected by federal or state law.

Jill Preston <Jill.Preston@uvm.edu>

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VanderbiltU ResAssist Genomics

An RA II position (term) is available in the Lea lab (http://lea-lab.org/), which is housed within the Department of Biological Sciences at Vanderbilt University. Research in the Lea lab sits at the intersection of evolutionary biology, genomics, and human health research. Our work focuses on the gene regulatory mechanisms that connect socioecological variation with health. Most of this work is conducted with human populations in Kenya, Bolivia, and Malaysia, but some projects focus on model systems such as immortalized human cell lines and non-human primates.

The RA II's duties will include performance of basic molecular biology laboratory techniques, such as DNA and RNA sample extraction, library preparation for high-throughput sequencing, cell culture, transfection, and transformation. The RA II will also work with other staff to support day-to-day logistics in the wet lab, including purchasing, sample and supply organization, shipping and receiving, and coordinating laboratory protocols, policies, and safety guidelines.

The position is full-time and is a term position, with renewal contingent on funding and performance. The position starts ASAP; interested individuals can apply here: http://tinyurl.com/4bxvmhva The Department of Biological Sciences has an excellent staff to facilitate issue resolution involving personnel, financial management, supply and equipment orders proposal submission, and infrastructure. The faculty in the department carry out diverse research projects and often collaborate with other members within the department and in nearby departments. This department covers a broad spectrum of biology, from molecules and cells to tissues and organisms to populations and ecosystems. Award-winning faculty and graduate students teach and carry out research in Biochemistry, Structural Biology and Biophysics, Cell Biology, Genetics, Molecular Biology, Computational Biology, Evolutionary Biology, Ecology, Developmental Biology, and Neurobiology.

Duties and Responsibilities

Generate genomic datasets - Extract DNA and RNA from biological samples - Generate and QC libraries for high throughput sequencing (e.g., RNA- seq, DNA-seq, RRBS, or ATAC-seq) - Assist with ongoing projects in the lab using massively parallel reporter assays; these protocols require mammalian cell culture, transformation, and transfection

Organization

- Maintain a detailed lab notebook - Maintain a detailed and up to date database of laboratory protocols - Maintain a detailed and up to date database of supply ordering - Maintain a detailed and up to date database of biological sample storage and oversee biological sample organization - Assist other lab members with finding, using, and returning archived biological samples to freezers

Daily lab operations

- Assist in collaborative efforts with other team members, laboratories, and/or institutions; train grad students, postdocs, and undergraduate trainees on specific protocols as needed - Oversee daily operations with respect to equipment maintenance, ordering and supplies, safety procedures, and training - Troubleshoot equipment and maintain as needed according to manufacturer and university guidelines - Evaluate, negotiate, and purchase standard supplies and equipment - Perform light administrative duties when asked, for example helping with permits, data and file management, or paper work related to projects in the lab - Other duties as assigned.

Qualifications

- A Bachelor's degree in biology, genetics, or a related field from an accredited institution of higher education (required) - A minimum of 1 year of laboratory technician or other laboratory work experience (required) - Comfortable with Microsoft Office, Google Drive apps, and other word processing or spreadsheet applications (required) - Comfortable with learning new applications for organizing samples, orders, etc. (required) - Extreme attention to detail and organizational abilities (required) - Ability to function independently as well as part of a team (required) - Ability to maintain a detailed lab notebook (required) - Knowledge of basic aseptic technique and molecular techniques (e.g., PCR, cloning, gel electrophoresis, DNA/RNA extractions) (required) - Experience in a genomics or molecular biology laboratory (required) - Experience with tissue culture (preferred) - Experience with high-throughput sequencing library preparation (preferred)

Commitment to Equity, Diversity, and Inclusion

At Vanderbilt University, we are intentional about and assume accountability for fostering advancement and respect for equity, diversity, and inclusion for all students, faculty, and staff. Our commitment to diversity makes us who we are. We have created a community that celebrates differences and lets individuality thrive. As part of this

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VirginiaTech ForestEvolution

Faculty position in forest health at Virginia Tech. Broadly defined and could include evolutionary ecology, genomics, and/or genetics of forest pests/pathogens/invasive plants and/or their interactions with hosts. Please contact me if you have any questions (jah1@vt.edu).

Jason Holliday

The Department of Forest Resources and Environmental Conservation at Virginia Tech invites applications for a tenure-track Assistant Professor position in forest health. The successful candidate will build an outstanding and internationally recognized research program focused on biotic threats (insect pests, pathogens, and/or invasive plants) to forest health. The selected candidate will have a passion to instruct and mentor undergraduate and graduate students, and will complement departmental strengths in physiology, genomics, ecology, wildland fire ecology, silviculture, management, urban forestry, human dimensions, and geospatial analysis.

This is a full-time, tenure-track, 9-month appointment with primary responsibilities in teaching (50%) and research (50%). The successful candidate will teach undergraduate courses in forest health, which may include forest pathology, forest entomology, and/or invasive species. Mentoring of graduate and undergraduate students is required. Participation in departmental, college, and university affairs is expected.

The department values diversity and continually strives to maintain and promote an inclusive learning and research environment that embraces all students, faculty, and staff. We encourage applications from persons identifying with groups currently underrepresented in forest resources and environmental conservation, including but not limited to Black, Indigenous, Hispanic, Latinx, people of color, and underrepresented genders.

https://careers.pageuppeople.com/968/cw/en-us/-job/522184/assistant-professor-of-forest-health Jason Holliday <jah1@vt.edu>

WashingtonStateU Two Bioinformatics ResTech

Bioinformatics Research Assistant Washington State University - Vancouver

The Rudman Lab in the School of Biological Sciences at Washington State University - Vancouver is searching for a Research Investigator I to lead and assist with research in evolutionary genomics and bioinformatics. Research in the lab focuses on understanding the ecological and genetic factors that influence the pace and magnitude of evolutionary change. For examples of prior work around this theme see 1, 2, 3, 4. More information about the lab can be found at https://labs.wsu.edu/rudmanlab/ . The position focuses on the design and execution of analyses of genetic and genomic data. Successful applicants should be both interested and experienced in the analysis of large DNA sequence datasets using existing computational tools and in developing custom scripts. Research duties include planning and executing bioinformatic analyses and training students in bioinformatic methods. Workflows are likely to include: temporal poolseq data, analysis of 16s and metagenomic microbiome data, and temporal low-coverage whole genome sequencing.

Funding for this position is secured through 2027. This position is open until filled with potential start dates in 2022 or 2023. The successful applicant will be compensated with generous benefits and a salary commensurate with WA state guidelines (here). Interested applicants are asked to send a cover letter, CV, and contact information for 3 references to seth.rudman@wsu.edu. Informal email inquiries are also welcome.

The Rudman Lab is committed to creating a diverse, equitable, and inclusive working environment. All members of the group are expected to share in this commitment. Candidates from groups historically underrepresented in biological science research are especially encouraged.

Vancouver, WA is located in the Portland, OR metro area and is a beautiful place to live and work. As the only public four-year educational institution in Southwest Washington, WSU Vancouver is dedicated to its land-grant tradition for openness, accessibility and service to people. Situated on 351 scenic acres, WSU

Vancouver is in the homelands of the Chinookan and Taidnapam peoples and the Cowlitz Indian Tribe. Employees and students alike value the beauty of campus. Recognized by Insight Into Diversity magazine as a top college for diversity, WSU Vancouver is committed to advancing equity, diversity, inclusion and belonging in all that it does.

Research Technician Washington State University - Vancouver

The Rudman Lab in the School of Biological Sciences at Washington State University - Vancouver is searching for a Research Technologist III in evolutionary ecology and genomics. Research in the lab focuses on understanding the ecological and genetic factors that influence the pace and magnitude of evolutionary change. For examples of prior work around this theme, see 1, 2, 3, 4.

This position involves a combination of research and lab management responsibilities. Research duties include planning and executing local field experiments, laboratory assays, molecular work (e.g., DNA/RNA extraction, genotyping, sequencing library prep) and computational analysis. Lab duties will include organization, coordination,purchasing, and contributing to the ongoing development of the lab research capabilities and research vision. The successful applicant will have strong organizational, interpersonal, and managerial skills and an interest in research in evolutionary biology and/or genomics.

More information about the Rudman Lab can be found at https://labs.wsu.edu/rudmanlab/ . Funding for this position is secured through 2027. This position is open until filled, with initial application review scheduled for October 31st, 2022. Informal email inquiries are welcome. To apply, and for additional details, please see: https://wsu.wd5.myworkdayjobs.com/-WSU_Jobs/job/Vancouver-WA/Research-Technologist-3–Vancouver-Campus_R-7728 The Rudman Lab is committed to creating a diverse, equitable, and inclusiveworking environment. All members of the group are expected to share in this commitment. Candidates from groups historically underrepresented in biological science research are especially encouraged.

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ZooNewEngland DirectorFieldConservation

Zoo New England is seeking an experienced and creative Director of its unique Field Conservation Department (FCD). The successful candidate must have a graduate degree (or equivalent experience) and at least five years practical field experience related to wildlife conservation and management. Zoo New England is dedicated to being internationally recognized for the quality of its conservation management and research activities. The FCD is a dynamic and fast-growing department dedicated to restoring populations of rare species and engaging local human residents in our conservation management work. Most of our work is currently focused on improving the status of selected rare turtle, amphibian, fish, plant, and invertebrate populations in southern New England. In many of these programs, we work with local school children and adults who directly help us foster the recovery of rare animal and plant populations in their communities. The Director of Field Conservation will oversee our local rare species management programs and their related citizen engagement projects as well as our growing portfolio of international wildlife conservation projects. Zoo New England is at an exciting time of growth, with several capital improvements recently completed and more being planned, including a new wildlife health and conservation research center. We have an institutional strategic plan that prioritizes conservation and research, roles that are central to the department of Field Conservation. The successful candidate will have good communication skills, work well in a diverse group, and provide positive leadership. A track record of successful publication and grant applications are a plus. Zoo New England is a private, non-profit organization that operates the Franklin Park Zoo in Boston, MA, and the Stone Zoo in Stoneham, MA. A satellite office for field conservation staff is also maintained in Acton, MA.

Duties & Responsibilities

Field Conservation at ZNE - With input from a broad range of ZNE staff, works to implement the current FCD departmental strategic plan, revise that plan as needed, and integrate the FCD- s work into the ZNE Strategic Plan. - Working with the FCD staff, provides oversight and leadership for FCD field conservation, education, and outreach programs. Attends weekly FCD staff meetings and is personally familiar with the breadth of FCD projects. - Working with FCD staff, develops and implements flagship conservation projects that may include local, national, and international projects. - Assist board-appointed chair of the Conservation Advisory Committee with establishing meeting agendas and priorities for committee member participation. - Promotes the use and refinement of FCD- s citizen participation model for local wildlife conservation among other institutions domestically and abroad. - Works with ZNE Development office and FCD staff to identify and write appropriate grants and contracts to help support the work of the FCD domestically and abroad, and oversee administration of awarded grants. - Development, oversight, and enforcement of FCD field protocols and procedures.

Overall ZNE Conservation - Works with staff from all ZNE departments to help ensure that a consistent and clear message in support of wildlife conservation permeates the operations of ZNE and the experiences of zoo visitors. - Works with ZNE staff and visitors to identify concrete actions that they can undertake to improve the future for the Earth- s biodiversity. - Develops and expands strategic partnerships and collaborations with conservationists from other zoos, government agencies, NGO- s, and private individuals and corporations in support of ZNE strategic plan goals. - In collaboration with ZNE Development, meets with potential donors and collaborates on fundraising appeals and events. - Helps disseminate the results and insights of ZNE conservation programs at conferences or through written technical and non- technical articles and reports. - Chairs the ZNE Conservation Committee and increases ZNE- s role as an effective partner in international wildlife conservation and conservation education efforts. - Works towards developing a - Conservation Travel- program for the public that is related to ongoing flagship ZNE conservation initiatives. - Work with VP of Animal Health and Conservation to construct annual operating budget, and monitor and track operational budget and restricted conservation funds.

Minimum Job Requirements - Master- s degree or equivalent experience in a field relevant to the work of the Field Conservation Department,

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

Other

AGAAwards DeadlineDec14

The 2023 AGA Awards rounds are open!

The American Genetic Association grants Evolutionary, Ecological, and Conservation Genomics (EECG) Research Awards to graduate and post-doctoral researchers who are at a critical point in their research, where additional funds would allow them to conclude their research project and prepare it for publication. Awards are up to $6,000.

The AGA grants Special Events Awards to its members for support of workshops and other events that advance the AGA mission to encourage the study of comparative genetics and genomics, in order to document, conserve, and manage organismal diversity. We are particularly committed to providing funds that support graduate student and early-career researcher participation. Awards are $1,000-$15,000.

Application materials and more information are available on the AGA website https://www.theaga.org/ < https://www.theaga.org/eecg-awards.php >

Deadline for receipt of application materials: Midnight PST, Wednesday, 14 December 2022

Anjanette Baker <theaga@theaga.org>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

Biodiversity Sabbatical FundingOpportunities

Dear all,

I hope everyone is fine in these messy times!

This is an announcement for two different research funding opportunities at iDiv the German Centre for Integrative Biodiversity Research (www.idiv.de).

- sDiv, the synthesis centre of iDiv (www.idiv.de/sdiv) has opened a new call for synthesis projects.

- What? A call for Early Career Researcher Synthesis Working Groups (ECR) and Modular Synthesis Projects (SynFlex)

- When? Deadline for Pre-Proposals: 16 December 2022

- What else? With this call, we specifically encourage proposals that engage genuinely with topics and researchers from under-represented regions (see for more details the call website).

- Where can I find more about it? Please see for details www.idiv.de/sdiv/calls - Call for iDiv sabbatical project proposals

- What? A call for senior scientists to work at iDiv for one year or shorter time periods

- When? Deadline for pre-proposals: 25 January 2023

- Where can I find more about it? Please see for details https://www.idiv.de/en/sabbaticals.html Please distribute this call widely into your networks & to relevant colleagues.

Feel free to ask my related questions.

Thanks a lot & stay healthy Cheers

sM(arten Winter) Head of sDiv

I'm sorry, if you receive this mail at weekends, in your holidays or in non-office hours. Of course I don't expect you to answer immediately. Thanks for understanding!

IMPORTANT: I can't receive any emails with any old Windows Office file formats (e.g. doc, xls, ppt) for security reasons.

Head of sDiv - Synthesis Centre of iDiv

Homepage

https://www.idiv.de/groups_and_people/employees/-details/eshow/winter_marten.html Twitter @sMarten_Winter

German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Puschstraße 4 04103 Leipzig Germany

iDiv is a research centre of the DFG - Deutsche Forschungsgemeinschaft

"Winter, Marten" <marten.winter@idiv.de>

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ESEB Prize CallForProjects Meetings

ESEB - John Maynard Smith Prize 2023: Call for Nominations

Each year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

NOMINATION *//*

The prize is open to any field of evolutionary biology. The candidates for the 2023 prize normally must have begun their PhD study after January 1, 2016. In addition, nomineesmore than 7 years from the start of their PhD will be considered if they have had career breakstaken for family, caring or health reasons; the nature of the reason must be given. Self-nominations are welcome.

Documents supporting a nomination should be sent as a single PDF file to Ute Friedrich at the ESEB office (office@eseb.org). These should include a brief justification of the nomination explaining the candidate's contributions to the study of evolution, the candidate's CV and list of publications (indicating three most significant papers), a short description of current and future research plans from the candidate (about 1-2 pages), and a letter from the candidate approving the nomination. A letter of reference from another colleague (or, in case of self-nomination, two letters) should be sent directly to Ute Friedrich.

Nominations and letters of support should arrive no later than FRIDAY, JANUARY 13, 2023. Please take care to limit the size of attachments (total $<$ 10 MB) in any one email.

The nomination committee, chaired by the ESEB Vice President Andrea Betancourt, will evaluate the nominations and inform the winner approximately by the end of February 2023.

The prize winner is expected to attend the next ESEB congress in August 2025 in Barcelona, Spain, where he or she will deliver the 2023 John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare).—The JMS Prize comes with a monetary prize of 2500 euro , the invitation to write a review for the /Journal of Evolutionary Biology/, and the possibility of a Junior Fellowship of 6 months at the Institute of Advanced Study in Berlin, Germany. For more information on the Institute of Advanced Study see www.wiko-berlin.de/-en/ . Previous winners of the JMS Prize are listed at the ESEB web site https://eseb.org Sincerely, Andrea Betancourt ESEB Vice-President

European Society of Evolutionary Biology Email: office@eseb.org Website: eseb.org

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ESEB GLOBAL EVOLUTIONARY BIOLOGY INITIATIVE (GEBI) - Call for projects

ESEB aims to foster the development and integration of local evolutionary research communities from regions outside of the traditional strongholds of the discipline and their links with the evolutionary biology community in Europe. To address this need, we recently transformed the Global Training Initiative, mainly focused on supporting training activities, to the Global Evolutionary Biology Initiative (GEBI) which can provide financial, organisational and strategic support as required (https://eseb.org/prizes-funding/-global-evolutionary-biology-initiative/).

GEBI now welcomes applications to support new projects in line with its aims (examples include meetings to establish or strengthen local researcher networks, conducting hands-on workshops to disseminate new tools or methods, or developing curricula for teaching).

THE DEADLINE FOR THE CALL IS NOVEMBER 25th, 2022.

Applications should include a concise (up to two pages) description of the proposed activity and a detailed budget (in particularly specifying how the requested GEBI contribution will be used). Actions fostering evolutionary biology in the long term are particularly appreciated, and applicants are encouraged to describe how their proposals may reach this long-term objective. Maximal allowance is 10,000 euros/project.

Actions based in Western and Northern Europe, USA, Canada, Australia, New Zealand and Japan are not eligible for support by GEBI. Actions that are already covered by other ESEB initiatives/committees, e.g. outreach activities or travel grants to individual students/researchers for attending workshops or conferences are not eligible for support by GEBI.

Proposals should be addressed to office@eseb.org (subject: GEBI call for proposals 2022). We will acknowledge receipt of all applications within a week. If you

have not received our confirmation by then, please contact the ESEB office again!

European Society for Evolutionary Biology Email: office@eseb.org Website: https://eseb.org ——

PROGRESS MEETINGS IN EVOLUTIONARY BIOLOGY

We are excited to announce the next round of this initiative by the

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Evolution InPublicSchools

Dear friend, sharing with you some photos of an activity in a public achool in Brasil. The idia was a simulation of phenotype variation and natural selection. The students tested if different bird beaks could use more or less seeds as food.

https://m.facebook.com/story.php?story_fbid=pfbid02und3AuNchjS6J7Zh7ZD3jv2Nw8CUHqd9raCpqVaJE7DmydHKV7WcAXC8VFkz1JXkNl&id=1266679242&eav=AfYNrQzaONc4isRBJYJIYEJAFYqoiQVREI1eA-n00bIkh4Mo7H_FyBhOjqy4bD9c1fQ&m_entstream_source=timeline&anchor_composer=false&paipv=0
VOLTOLINI <jcvoltol@uol.com.br>

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NewPhytologist TansleyMedal Deadline

Dear all,

Applications for the 2023 New Phytologist Tansley Medal for excellence in plant science are open and the deadline is approaching! The Tansley Medal is a prestigious prize, awarded annually. The winner receives 2000 (GBP) and will have their work highlighted in New Phytologist, a leading plant science journal.

We want as many scientists as possible to know about this opportunity - please help us to spread the word by sharing this email with friends and colleagues!

Application procedure:

1. Applicants submit their CV, a personal statement, and supporting reference. 2. Shortlisted candidates will be invited to write a single-authored Tansley insight for submission to New Phytologist. 3. All competition articles that pass successfully through peer review will be published in New Phytologist. The winner will be selected from these articles.

The application deadline is 1 November 2022.

Read the rules and eligibility criteria, then apply here: https://www.newphytologist.org/awards/tansleymedal Join us at New Phytologist Now on 27 October to hear from Tansley Medal winner MichaÃ¹ Bogdziewicz - registration is free < https://www.newphytologist.org/events/now >!

Best wishes, Mike

Dr Mike Whitfield (he / him), Development Coordinator The New Phytologist Foundation < https://www.newphytologist.org/ > | Registered charity number 1154867 Twitter & Instagram: @NewPhyt | Facebook: fb.com/NewPhytologist

New Phytologist journal metrics: CiteScore: 15.7 | Article Influence Score: 2.574 | Impact Factor: 10.323

Apply for the New Phytologist Tansley Medal < https://www.newphytologist.org/awards/tansleymedal >! Deadline: 1 November 2022

"Whitfield, Mike (whitfiel)" <m.whitfield@lancaster.ac.uk>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

NewPhytologist TansleyMedal Nov-1

Calling all early career plant scientists!

The New Phytologist Tansley Medal is a prestigious prize, awarded to an early career scientist who has made an outstanding contribution to plant science. The winner receives 2000 (GBP) and will have their work highlighted in New Phytologist, a leading plant science journal. Full details at: https://www.newphytologist.org/awards/tansleymedal Application procedure:

1. Applicants submit their CV, a personal statement, and a supporting reference.

2. Shortlisted candidates will be invited to write a single-authored Tansley insight for submission to New Phytologist.

3. All competition articles that pass successfully through peer review will be published in New Phytologist, and the winner selected from these final articles.

Application deadline: 1 November 2022 This is a global competition open to all early career scientists with up to 5 years' experience since gaining their PhD. Career breaks do not count towards this time period.

Meet previous Tansley Medal winners The Autumn season of New Phytologist Now, online events for plant scientists, will feature recent Tansley Medal winners. Hear about their research and experience of applying for the Tansley Medal.

The season runs from 6 October to 7 December. The next event, on 27 October, is with MichaÃ¹ Bogdziewicz, on 'How will global change affect plant reproduction? A framework for mast seeding trends.' More details and free registration at: https://www.newphytologist.org/-events/now Want to be kept up to date about opportunities for early career plant scientists from the New Phytologist Foundation? Sign up to our mailing list: https://www.newphytologist.org/sign-up Best wishes, Mike

Dr Mike Whitfield (he / him), Development Coordinator The New Phytologist Foundation < https://-www.newphytologist.org/ > | Registered charity number 1154867 Twitter & Instagram: @NewPhyt | Facebook: fb.com/NewPhytologist New Phytologist journal metrics: CiteScore: 15.7 | Article Influence Score: 2.574 | Impact Factor: 10.323

Apply for the New Phytologist Tansley Medal < https:-/www.newphytologist.org/awards/tansleymedal >! Deadline: 1 November 2022

"Whitfield, Mike (whitfiel)" <m.whitfield@lancaster.ac.uk>

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Original Reprints

I have a large collection of 20th century original reprints (not photocopies) of papers by evolutionary biologists, including Allard, Cockerham, Dobzhansky, Elston, Ewens, Feldman, Felsenstein, Hartl, Hill, Kempthorne, Kimura, Lush, Nei, Ohta, Slatkin, and may others. Some are signed by the authors.

Does anyone know of a possible home for these, or have an interest themselves?

Thanks,

Bruce bsweir@uw.edu

Bruce S Weir <bsweir@uw.edu>

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Phillipines TeachingHighSchool Biodiversity

Teach General Biology and Research methods at a private high school in the Philippines and help develop and catalog an intertidal invertebrate biodiversity project. The deadline is November 15th, 2022

Science Corps is looking for 1 broadly trained evolutionary biologist, with a recent PhD (up to four years after graduation), for a fully paid fellowship to help build science capacity at our partner location, CVIF in Jagna, Bohol, Philippines . The Central Visayan Institute Foundation (CVIF) is a private highschool that serves as a host location for Science Corps Fellows. The fellowship is for late spring or early summer 2023. CVIF is looking for a PhD level evolutionary biologist to teach Biology and help the research team at the school develop MinION sequencing to produce a gene bank for phylum Mollusca from the Bohol Sea (as baseline data).

Science Corps is a small group of scientists running a non-profit that sends recent PhD graduates to teach science abroad. Fellows travel to partner institutions to develop science curriculum, teach in secondary school classrooms, and build community-based research projects. In addition to building science capacity at these host locations,

we also aim to offer fellows a life-changing experience. They are given the opportunity to spend time in beautiful locations, immerse themselves in different cultures, and learn from their host educators-all while making positive contributions to these communities.

The deadline for this specific fellowship opportunity for an evolutionary biologist in the Philippines is November 15th, but we still encourage you to contact us if you would like to be considered for a later appointment.

To find out more about us and apply, please go to

https://science-corps.org Stephen E. Harris, Ph.D. Assistant Professor of Biology, Purchase College SUNY < https://www.purchase.edu/live/profiles/-1759-stephen-harris > Cofounder, Science-Corps < http://www.science-corps.org/ > (614) 915-4686 stephen.harris@purchase.edu

Stephen Harris <harris.stephen.e@gmail.com>

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PIs needed VirtualLabMeetings

We are thrilled to announce the 2022-2023 SMBE Virtual Lab Meeting Training Program!

This program aims to connect early career researchers with established PI mentors from all over the world in a lab meeting setting. Our new program will link early career researchers to established labs from around the globe.

Please sign up to be SMBE PI mentor! https://-forms.gle/ASF2pttHeZMPa2Hq5 We're looking for PI mentors who: - Host a weekly or bi-weekly lab-meeting - Are willing to have hybrid or virtual lab meetings - Want to increase & foster international collaboration

Please sign up to be a mentor, we only need a few more mentors to make this program a success!!

SMBE Virtual <smbe.virtual@gmail.com>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

SMBE VirtualLabMeetingTrainingProgram

We are excited to announce sign-ups are LIVE for the SMBE Virtual Lab Meeting Training Program! In this program, SMBE seeks to provide training to graduate students and early postdoctoral researchers by participating in lab meetings of a research group that shares their interests. The goal of the program is to promote the exchange of ideas between labs with different academic cultures and make explicit efforts to connect students with faculty in the Molecular Biology and Evolution community across the globe. Approved graduate student and postdoctoral participants will receive a $100 stipend! There is also the opportunity for a travel/registration award to SMBE 2023!

Are you interested in connecting with other labs from around the world in a stress-free setting? Want to expand your network and branch out scientifically and socially? Sign up for the Virtual Lab Meeting Training Program!

The application is located at: https://-smbevirtual.github.io There is a brief application process that will include a short statement, your mentor preferences, and your CV/resume. If you have any questions, reach out to smbe.idea@gmail.com

"Kelley, Joanna" <joanna.l.kelley@wsu.edu>

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SSE DobzhanskyPrize

The Society for the Study of Evolution is now accepting nominations for the Theodosius Dobzhansky Prize < http://www.evolutionsociety.org/index.php?module=-3Dcontent&type=3Duser&func=view&pid=13 > to recognize the accomplishments and future promise of an outstanding early-career evolutionary biologist.

The nominee's university must have officially awarded their degree (Ph.D. or equivalent) between December 1, 2018 and December 1, 2022, though the committee will

consider circumstances that may extend eligibility. We consider candidates working on all areas of evolutionary biology, broadly defined. We are specifically looking for candidates who take creative approaches to answering pressing questions in evolutionary biology. We will consider people working on any taxonomic group (i.e., plants, animals, fungi, microbes, etc.) and who take empirical and/or theoretical approaches. We value diversity, and are seeking a broad and diverse applicant pool from all axes and components of diversity in the evolutionary biology community. We welcome nominations of researchers around the globe.

The Dobzhansky Prize is accompanied by a check for U.S. $5000, and is awarded at the annual Evolution meeting < https://www.evolutionmeetings.org/ >. The recipient is expected to be present to receive the award and to give an oral presentation about their research.

Learn more about the eligibility requirements, evaluation criteria, and how to apply: https://bit.ly/-DobzhanskyPrize22 Deadline: December 1, 2022

*Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org SSE Communications <communications@evolutionsociety.org>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

UIowa REU EvolutionarySciences

Please forward to your undergraduate students!

The University of Iowa is offering 10 NSF-funded Research Experiences for Undergraduates (REU) opportunities during the summer of 2023. Free housing, a meal allowance, a $6000 stipend, and a travel allowance will be provided to all participants.

Research projects span a broad range of topics related to evolution, including evolutionary ecology, evolution of behavior, origin of species, cancer evolution, evolution of sex, evo-devo, evolution of pathogens, and paleontology. REU students work on one project, but through interactions with their cohort ultimately receive a broad exposure to evolutionary science. Students in the program receive training in research best practices, participate in career workshops, create a digital exhibit based on their research for the University of Iowa Natural History Museum, and make formal research presentations based on their work.

The REU program website and link to our application form can be found here: https://biology.uiowa.edu/reu. Students from groups historically excluded from science because of their ethnicity or race and/or who have limited research opportunities at their home institution are especially encouraged to apply.

Application Deadline: February 1, 2023.

Questions? Contact Andrew Forbes (andrewforbes@uiowa.edu) or Maurine Neiman (maurineneiman@uiowa.edu).

Andrew Forbes Associate Professor, Department of Biology Program Director, UI Environmental Sciences Program The University of Iowa 434A Biology Building Iowa City, IA 52242 Tel: (319) 335-3006 mailto:andrewforbes@uiowa.edu https://forbes.lab.uiowa.edu/

evoldir@evol.biology.mcmaster.ca

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

PostDocs

AMNH NewYork EvolutionaryBiology

We are pleased to announce that we are accepting applications for our Postdoctoral Research Fellowships Program at the Richard Gilder Graduate School at the American Museum of Natural History.ï¿½ Deadline: November 15, 2022.

The Postdoctoral Research Fellowship Programs of the AMNH are designed to advance the training of each participant by having them pursue a specific, time-limited project in association with Museum professionals in the Museum setting. The applicant's project must fit into one or more of the main research areas of interest in the Museum's Scientific Divisions: Anthropology, Invertebrate Zoology, Paleontology, Physical Sciences (Astrophysics and Earth & Planetary Sciences), or Vertebrate Zoology.

Postdoctoral Fellows are expected to conduct their work at the Museum. Applicants are encouraged to contact potential curatorial sponsor(s) prior to applying. Appointments are typically made for two years. In addition to a competitive salary and benefits, limited relocation, research and publication support is provided. Newly graduated or soon-to-graduate PhDs may apply.ï¿½Fellows must have received their degrees or deposited their dissertations before they can begin their appointments. There are no citizenship or geographic requirements to apply.

Details about the Postdoctoral Research Fellowships Program can be found on https://www.amnh.org/-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/-postdoctoral-research-fellowship-program . Please contact us (mailto:info-rggs@amnh.org) if you need any further information.

Richard Gilder Graduate School American Museum of Natural History https://www.amnh.org/research/-richard-gilder-graduate-school

Anna Manuel <amanuel@amnh.org>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>) golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

AuburnU DamageFitnessModel

Postdoctoral Position in Stress Biology and Epigenetics at Auburn University

The Wada and Schwartz Lab at Auburn University invites applications for an enthusiastic, creative postdoctoral scientist to join a growing research team on an NSF-funded project to test the damage-fitness model. This project integrates molecular measures of cellular damage, protection and repair, and epigenetics using zebra finches. Through integrating biological and engineering modeling approaches, we will develop mechanistic and predictive mathematical models, linking developmental and adult environments, epigenetic modifications, stress-induced molecular and cellular damage, and fitness indices. Required criteria:

* Candidate must have a track record of addressing scientific problems in an innovative, thoughtful, and systematic manner * Candidate must possess excellent written and interpersonal communication skills * Candidate must have a strong publication record in physiology or functional genomics * Candidate must have a PhD at time of employment and meet eligibility requirements to work in the United States at the time appointment is to begin and continue working legally for the proposed term of the appointment.

The ideal candidate would have a strong background in conducting bioinformatic analyses of large-scale data such as genomics, transcriptomics, or epigenetic analyses and knowledge of molecular techniques for DNA, RNA, or epigenetics with experience working with animals. Whatever their background, they must have a strong interest in stress biology.

The ideal candidate will aim to make a major contribution to our ongoing research programs and develop and carry out their own line of research within the funded project. Selected applicants will also benefit from funds to travel to national meetings annually, opportunities for mentoring and career development. Additional lab funds for independent projects are available upon written proposal submission. The postdoc will be co-mentored by Drs. Wada and Schwartz and expected to produce first authored papers, contribute to co-authored papers, and assist training graduate students. Persons from groups typically under-represented in science are strongly encouraged to apply. Our research groups are family-friendly and value diversity to create an inclusive and equitable environment, along with the efforts by the College of Sciences and Mathematics.

For more information about the labs see: Wada Lab: https://www.wadalaboratory.com/ Schwartz Lab: http://www.schwartzlab-ecoevolutionarygenomics.org/ Department of Biological Sciences: http://www.auburn.edu/cosam/-departments/biology/ Auburn University runs several high-performance computing clusters (https:/-/hpc.auburn.edu/hpc/index.php and we also have access to use the Alabama Supercomputer (https:/-/www.asc.edu/). Auburn University is a land-grant institution and is an EEO/Vet/Disability Employer.

This is a full-time, twelve-month, non-tenure track position beginning of 2023 or sooner, for a term of one year with additional years possible depending on performance. Applicants should email the following to Haruka Wada (hzw0024@auburn.edu) and Tonia Schwartz (tss0019@auburn.edu) with header: Stress Biology Postdoc. Review of applications will begin in November 1st until position is filled.

1. Cover Letter, 2. CV with names and contact information of three references, and 3. Statement of research interests including a description of how they fit in the focus of the Wada and Schwartz lab groups.

hzw0024@auburn.edu

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Cayenne FrenchGuiana PoisonDartFrogsGenomics

Postdoctoral position in Cayenne - French Guiana (30 months): Dissection of the genetic basis underlying the radiation of warning signals in poison dart frogs

Start date: December 1st, 2022

I am looking to hire a postdoctoral researcher (PDR) to investigate the genetic basis underlying the impressive diversity of vivid color pattern in the Peruvian Ranitomeya poison dart frogs as part of the funded project RANAPOSA. The identification of these genomic regions will enable to test original hypothesis regarding the evolution of mimicry convergence between unrelated species and better understand how warning colorations can diversify so extensively and yet be maintained at very small spatial scale. This study investigates three

Müllerian mimetic species, Ranitomeya variabilis, R. imitator and R. fantastica and genetic samples available includes Mendelian crosses, wild individuals from multiple populations with distinct warning colorations, and both genome and transcriptomes are already available.

Supervision: The PDR will be based in Cayenne (French Guiana at the Laboratoire Ecologie, Evolution, Interaction des Systèmes Amazonien (LEEISA https://www.leeisa.cnrs.fr/) and will be advised by Mathieu CHOUTEAU from the Centre National de la Recherche Scientifique (CNRS). In addition, the PDR will interact with other members of the Ranitomeya consortium: Kyle Summers (East Carolina University), Adam Stuckert (University of Houston) and Rasmus Nielson (UC Berkeley).

Requirement: Strong expertise in advanced genomic: Association mapping, genome scans, detection of introgression and genomic rearrangements, the use of capture baits, short- and long-reads sequencing, good knowledge of demographic inferences tools, linux system, statistics with R.

Good understanding of molecular laboratory techniques: optimization of DNA extractions, genomic libraries and sequencing design.

Solid organizational and computational skills: curation of the genetic samples, DNA extractions and associated genomic data, handling of genomic datasets generated using different sequencing technologies.

Interest for ecology and evolution: especially in the processes leading to adaptive radiation, including niche specialization, reproductive isolation and population dynamic.

Scientific independence: Excellent analytical and writing skills, good relational abilities and capacity to innovate, interest in developing its own research.

Broader context: French Guiana is an overseas department of France located between Brazil and Surinam. Working in Cayenne provides a privilege access to the living laboratory that is the Amazon but also to an inexhaustible number of outdoor activities. A large international community of ecologists and evolutionary biologists are involved in research projects in French Guiana, and many Research institutes interested by the Amazonian biodiversity are locally present (CNRS, CIRAD, INRAE, IRD, Institut Pasteur, Université de Guyane) providing a stimulating research environment and a unique opportunity to build their academic network. The host institution (LEEISA) is young, dynamics, and working conditions and everyday life are pleasant.

Salary: Wage will follow rules from the Centre National de la Recherche Scientifique (CNRS), and will depend notably on experience. French salaries include social benefits such as health insurance.

Application process: Applicants should apply using the CNRS job portal at the following address: https://emploi.cnrs.fr/Offres/CDD/UAR3456-MARLEC-005/Default.aspx?lang=EN before November 9th, 2022

Mathieu Chouteau Chargé de recherche CNRS USR MIXTE 3456 LEEISA Centre de Recherche de Montabo 275 Route de Montabo 97300 Cayenne CEDEX Guyane Française 0694 40 39 61 (5h de moins que la France Métropolitaine) https://mathieuchouteau.weebl#.com/ Remplacer le '#' par 'y' car le mail cnrs filtre.

CHOUTEAU Mathieu <mathieu.chouteau@cnrs.fr>

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DrexelU EvolutionaryGenetics

Postdoctoral Researcher position at Drexel University

The Phifer-Rixey Lab at Drexel University is seeking applications for a Postdoctoral Researcher. The lab is engaged with a variety of integrative projects investigating evolutionary genetics in wild populations with opportunities for researchers with diverse interests and experience (phiferrixeylab.com). The successful candidate will contribute to a research program combining field, bench, and computational approaches to investigate urbanization in house mice. In addition, there are opportunities to contribute to outreach, teaching, and mentoring and to develop independent research projects. Beyond research activities, the successful candidate will be supported in professional development.

Apply Here: https://careers.drexel.edu/en-us/job/-499770/postdoctoral-researcher Start date is flexible and review of applications will begin immediately and continue until the position is filled.

Located in the heart of Philadelphia, PA, Drexel University is a world-class, comprehensive, R1 research institution and a global leader in experiential education. Committed to becoming the nation's most civically engaged university, Drexel supports engagement along three dimensions: research and academic programs that directly benefit communities, business practices that

support equitable local and regional economic development, and public service by students, faculty, and staff. Our engagement is long-term, multigenerational, and fundamental to the University's mission, heritage, and future.

Megan R <megphif@gmail.com>

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DukeU PlantGenetics

POSITION: I am seeking a postdoctoral scholar interested in investigating the evolution the genetic and developmental evolution of floral color patterns in the genus Clarkia. Please see references listed below for work our lab has published on this project. I am particularly interested in someone who can bring innovative approaches to identifying the genes controlling the expression of various pattern elements such as spots, speckling and white patches. While the transcription factors responsible for activating the anthocyanin enzyme-coding genes that produce these elements (e.g. R2R3Mybs) are well understood, the genes regulating those transcription factors are largely unknown, as is true generally for the anthocyanin pathway. Identifying genes involved in this second level of regulation will be key for understanding how the regulatory networks controlling pattern formation evolve. In addition, because Clarkia is a non-model organism, development of tools such as permanent or transient transformation, in situ hybridization, and/or viral induced gene silencing (VIGS) will facilitate progress on this project.

POSITION DETAILS: The position is a full-time appointment initially for one year, with the possibility of extension depending on grant funding. The postdoc will have the opportunity to participate in writing a grant proposal for additional funding. The salary is $54,840/year with benefits. Target start date is 1 January 2023, but there is flexibility.

QUALIFICATIONS: Candidates for this position should have obtained, at the time of the position start date, a Ph.D. degree in the biological sciences. They should have a record of first-author publications demonstrating competence in critical scientific thinking and research creativity. Experience with one or more of the following is desirable: transcriptomic assessment of gene expression, including associated bioinformatic skills; single-cell or small-scale RNA sequencing; experience with plant transformation, VIGS, and/or in situ hybridization; training in population genetics, evolutionary biology or evolutionary developmental biology (EVO-DEVO).

DUTIES: The primary duty is to investigate the developmental processes that determine the spatial expression domain of floral pattern elements and how those domains evolve. The successful candidate will be given latitude in deciding which floral pattern elements to investigate. Opportunities for mentoring undergraduates will be available. There will be significant opportunities for professional growth and career development activities.

APPLICATION: Applications should be submitted to Academic Jobs Online at https://-academicjobsonline.org/ajo/jobs/23269 and should include the following :

* Cover letter that describes your interest in the position and your experiences relevant to the project * CV * Copies of up to 3 published papers demonstrating your skills and preparation relevant to this position * Names and contact information for three professional references * A detailed description (not more than 1 page) explaining how you would address the following problem:

Clarkia xantiana petals have a red spot surrounded by a white (non-pigmented) halo against a more lightly colored background. The background and spot are controlled by separate R2R3Myb pigment initiators. There are three naturally occurring mutants: (1) lacking halo, but with spot and background pigmentation present; (2) lacking both spot and halo, but with background pigmentation throughout the petal; and (3) spot present, background pigmentation absent. The flowers are small, the spot being 3-5 mm in diameter and the halo being another 2-4 mm wide. Explain how you would attempt to determine the developmental basis of the halo and how it evolved as a novel character in this species.

Applications will be considered as they arrive and must be submitted by 15 December 2022.

REFERENCES:

Lin, Rong-Chien and M. D. Rausher. 2021. Ancient gene duplications, rather than polyploidization, facilitate diversification of petal pigmentation patterns in Clarkia gracilis (Onagraceae). Molecular Biology and Evolution 38:5528-5538.

Lin, Rong-Chien and M. D. Rausher. 2021. R2R3-Myb genes control petal pigmentation patterning in Clarkia gracilis ssp. Sonomensis (Onagraceae). New Phytologist 229: 1147-1162.

Martins, T. R., P. Jiang, and M. D. Rausher. 2016.

How petals change their spots: cis-regulatory re-wiring in Clarkia (Onagraceae). New Phytologist 216: 510-518.

Martins, T. R., Berg, J. J., Blinka, S., Rausher, M. D., and Baum, D. A. 2013. Precise spatio-temporal regulation of the anthocyanin biosynthetic pathway leads to petal spot in Clarkia gracilis (Onagraceae). New Phytologist 197: 958-969.

Contact Mark Rausher at mrausher@duke.edu if you have any questions.

Mark D. Rausher Professor of Biology Duke University, Durham, NC 27708

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

EMBL-EBI ProteinScienceMachineLearning

Hi all,

I hope this email finds you well.

I am reaching out to share with you an exciting postdoc role that has emerged as a collaboration between our bioinformatics group at AstraZeneca and the Andrew Leach group at EMBL-EBI < https://www.ebi.ac.uk/people/person/andrew-leach/ >. We are looking for a colleague to help us develop the next generation of recombinant protein expression prediction tools at the interface between both our organisations.

EMBL-EBI: https://www.embl.org/jobs/position/EBI02081 Linkedin: https://www.linkedin.com/jobs/view/3286633827/ I was wondering if you could possibly circulate this role within your networks - we are at a quite exciting time in our protein ML journey and we look for experts to drive our developments looking ahead into 2023 and beyond.

Best wishes, Sergio

Sergio Martinez Cuesta <sermarcue@gmail.com>

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IBE Barcelona Two Bioinformatics WetLabGenomics

BIOINFORMATICS POSTDOCTORAL POSITION AT THE EVOLUTIONARY AND FUNCTIONAL GENOMICS LAB

Research at the Evolutionary and Functional Genomics lab focuses on understanding the genetic and molecular basis of adaptation. Towards this end, we combine -omics approaches, including DNA-seq, RNA-seq, ChIP-seq and Hi-C, with detailed molecular (e.g. in vivo enhancer assays, in vivo CRISPR/Cas9 editing) and phenotypic analyses (e.g. survival analysis, stress-response analysis), to identify and characterize adaptive mutations. More details about our research are available at http://gonzalezlab.eu. We are located at the Institute of Evolutionary Biology (IBE), a joint institute of the Spanish National Research Council (CSIC) and the Pompeu Fabra University (UPF) in Barcelona city. The IBE is a member of the Barcelona Biomedical Research Park (PRBB).

Job Description The postdoctoral researcher will be part of a team of two postdoctoral researchers and one laboratory technician, carrying out a research project that aims to understand the molecular mechanisms underlying gene-environment associations in the context of the current global change. The team will identify and characterize gene-environment associations in Drosophila melanogaster natural populations using both bioinformatic and experimental approaches. Whole genome sequences from natural populations collected mainly in Europe, US and Africa will be available at the start of the project, while other -omics datasets will be produced during the course of the project. The postdoctoral researcher will be responsible for the bioinformatic analyses of the project including the identification of genetic variants, both SNPs and transposable element insertions, in all the genomes available; ChIP-seq and RNA-seq analyses; the identification of gene-environment associations across space and time (seasonal and across years); the analysis of the environmental variables most relevant for adaptation; and the analysis of the candidate genes identified, among other related tasks. Contact josefa.gonzalez@csic.es for further details.

REQUIREMENTS A PhD in Evolutionary Biology, Genomics, Bioinformatics, or similar fields is required. Good programming skills, good organizational skills

and good writing and oral communication skills are required.

Experience with variant calling, whole-genome scans for population differentiation, and available tools to identify gene-environment associations, such as BayPass, are desirable. Experience with high-performance computing or use of clusters (SLURM) is desirable. Previous knowledge on Drosophila melanogaster and transposable element biology is desirable.

CONTRACT DURATION AND BENEFITS - Duration: 2 years - Starting date: The position is available immediately. Starting date is negotiable. - Type of contract: Full time (37.5 hours per week) - Salary Range: Depending on experience and according to CSIC salary scales. - Benefits: The candidate will join a research team that has expertise both in experimental and bioinformatics methodologies. Several projects are currently ongoing in the laboratory which allows for collaborative opportunities. The Evolutionary and Functional - Genomics lab also offers extensive networking opportunities as we are co-leaders of the European Drosophila Population Genomics Consortium (https://droseu.net) that brings together 74 research labs across 28 countries, the Spanish excellence network in Adaptation - Genomics (https://adaptnet.es), the CSIC LifeHub network (https://lifehub.csic.es), and we are part of the TE hub initative (http://tehub.org/).

APPLICATION PROCESS Send your CV and a brief letter of motivation explaining qualifications and interest in the position to Dr. Josefa González at josefa.gonzalez@csic.es. Please include "Bioinformatics position" in your e-mail subject.

APPLICATION DEADLINE Send your application by December 9th 2022 CET.

FUNDING The position is part of the Project TED2021-130483B-100, funded by MCIN/AEI/10.13039/501100011033 and by the European Union "NextGenerationEU"/PRTR.

CONTACT josefa.gonzalez@csic.es

Josefa González | CSIC Tenured Scientist Institute of Evolutionary Biology, CSIC, UPF Passeig Marítim de la Barceloneta 37-49/ 08003 Barcelona/ Spain. www.gonzalezlab.eu |

@GonzalezLab_BCN

Co-organizer of the European Drosophila Population GenomicsConsortium(DrosEU) Science Outreach La Ciència Al Teu Mon | euroscitizen.eu

melanogaster.eu

Most recent preprints/publications:TEs and long-read seqNature Communications| TEs&immune responseGenome Biology| TEs in Anopheles Genome Research

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WET-LAB POSTDOCTORAL POSITION AT THE EVOLUTIONARY AND FUNCTIONAL GENOMICS LAB

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ImperialC London PlantFungalSpeciationGenomics

RESEARCH ASSOCIATE IN PLANT-FUNGAL GENOMICS

The post is to investigate if plant-fungal symbioses can underpin plant diversity, including surveying mycorrhiza in Howea palms using 18S ribosomal DNA barcoding and looking at population effect on local adaptation of the palms. The post holder will also look at stress tolerance in related crop palms. To carry out research programmes in the field (experiments on Lord Howe Island, Australia), metabarcoding and transcriptomics, undertake...

Imperial College London - Silwood Park Campus

Full time, fixed term 3 years

Salary 43,093 - 50,834 GBP plus benefits

Closing date 10 November 2022

To apply visit: https://www.imperial.ac.uk/jobs/-description/NAT01293/research-associate-plant-fungal-genomics Job summary

The post is to investigate if plant-fungal symbioses can underpin plant diversity, including surveying mycorrhiza in Howea palms using 18S ribosomal DNA barcoding and looking at population effect on local adaptation of the palms. The post holder will also look at stress tolerance in related crop palms.

To carry out research programmes in the field (experiments on Lord Howe Island, Australia), metabarcoding and transcriptomics, undertake project management and help supervise multi-disciplinary teams (PhD and

Masters students). You will be expected to submit publications to refereed journals.

Lab website: https://www.imperial.ac.uk/people/-v.savolainen . Informal enquiries please email: v.savolainen@imperial.ac.uk

Duties and responsibilities

To conduct field experiments on Lord Howe Island

To conduct metabarcoding, genomics and transcriptomics data analysis

To direct the work of small research teams (PhD and Masters students)

Research Duties:

To conduct field experiments on Lord Howe Island

To conduct metabarcoding, genomics and transcriptomics data analysis

To direct the work of small research teams (PhD and Masters students)

To identify and develop suitable techniques, and apparatus, for the collection and analysis of data

To ensure the validity and reliability of data at all times

To maintain accurate and complete records of all findings, and ensure the reproducibility of all findings and archiving of all data

To maintain highly organised and accurate record of experimental work

To write reports for submission to research sponsors

To present findings to colleagues and at conferences

Essential requirements

Hold, a PhD (or equivalent) in plant evolution, ecology, genetics, genomics

Practical experience in a broad range of techniques including metabarcoding, genomics and transcriptomics

Practical experience within a research environment and / or publication in relevant and refereed journals

Knowledge of research methods (metabarcoding, transcriptomics) and statistical/computational procedures (R, unix)

Knowledge of mycorrhizae, plant speciation and evolutionary biology

Ability to develop and apply new concepts

Ability to conduct a detailed review of recent literature

Ability to direct the work of a small research team and motivate others to produce a high standard of work

Further information

This post is a fixed term, full-time contract 3 years. You are expected to start in January 2023. You will be based at Silwood Park Campus.

Candidates who have not yet been officially awarded their PhD will be appointed as a Research Assistant within the salary range 38,194 - 41,388 GBP per annum.

Prof. Vincent Savolainen Professor of Organismic Biology

Director of the Georgina Mace Centre for the Living Planet

Imperial College London Department of Life Sciences Silwood Park Campus Buckhurst Road, Ascot, SL5 7PY, UK

Tel +44 (0)20 7594 2374 v.savolainen@imperial.ac.uk skype vincent.savolainen1 www3.imperial.ac.uk/people/v.savolainen

“Savolainen, Vincent” <v.savolainen@imperial.ac.uk>

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JagiellonianU MitonuclearCoAdaptation

Postdoc opportunity Jagiellonian University in Krakï¿½w, Poland

Mitonuclear co-adaptation and speciation in amphibians

We seek a motivated PhD interested in pursuing a postdoc focused on mitonuclear co-adaptation and its role in amphibian speciation.

Mitochondrial protein complexes involved in aerobic respiration are encoded in mitochondrial DNA and nuclear DNA, a condition necessitating co-adaptation between the two genomes. Mitonuclear co-adaptation is broken up by recombination when individuals from divergent lineages (such as different species) mate and produce hybrid progeny. Mitonuclear incompatibilities, i.e. the mismatch between gene products encoded by the mtDNA of one species and nDNA of another, may constitute important postzygotic reproductive barriers. However, several basic aspects of this potentially universal reproductive isolation mechanism remain poorly known. The goal of this project is to evaluate the role of mitonuclear co-adaptation in amphibian speciation.

The post-doc will participate in attaining one or more of the following aims of the project: (1) assess the concordance of patterns of sequence divergence in mtDNA- and nDNA-encoded genes involved in mitochondrial metabolism across the contact zones of hybridizing amphibian species, (2) evaluate the causes of widespread mtDNA introgression in amphibians, (3) assay the functional and fitness consequences of mitonuclear incompatibility in tadpoles.

The post-doc will join a team of researchers led by Maciej Pabijan (http://zap-uj.pl/pabijan_en.html) at the Institute of Zoology and Biomedical Research at Jagiellonian University in Krakï¿½w. The position involves molecular lab work (targeted sequencing), demographic modelling and participation in an experiment on tadpole fitness and function in relation to mitonuclear discordance. Depending on his/her interests, the candidate may also contribute to field work (amphibian sampling) in Poland and beyond. The project is funded by the National Science Centre of Poland. The post-doc position is for 30 months with a salary of ~7 000 PLN (~1 550 Euro) per month, which is reasonable considering the lower living costs of Krakï¿½w compared to other European cities. A post-doc is to be understood as a full-time position for someone who has obtained their PhD within the last 7 years. Applications will be reviewed until November 6th, 2022, the starting date is negotiable but preferably January 2023. For more information contact Maciej Pabijan (maciej.pabijan@uj.edu.pl)

Maciej Pabijan, PhD Department of Comparative Anatomy Institute of Zoology and Biomedical Research Jagiellonian University Krakï¿½w, Poland http://zap-uj.pl Maciej Pabijan <maciej.pabijan@uj.edu.pl>

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LinkpingU QuantGeneticsPigmentation

A two year post-doctoral position looking a the genetic basis of pigmentation and in relation to behavioural and other life history traits is available at Link??ping University Biology dept, Sweden. The postdoc will work with Prof. Dominic Wright (PI). This topic will be investigated using two distinct model systems. The first system involves assessing the genetic basis of structural iridescence as part of an ERC-funded project studying feralisation in chickens. Structural colour is one of the three main forms of coloration in animals, often manifested as iridescence. Iridescence is a phenomenon that produces a vivid metallic colouring depending on viewing angle. Layered or otherwise periodic arrangements in feathers, cuticle and scales cause these striking interference effects. To fully understand these functions and trade-offs it is necessary to dissect their genetic basis. However, whilst the genetics of pigment-based colour have been investigated for almost a century, almost nothing is known about the developmental basis and the gene-regulatory mechanisms underlying structural colour. Structural colour is far more complex than its pigment-based counter-part, and involves the organization of cells in layers to form periodic keratin complexes often in the form of multilayers. Detailed 3D measurements will be performed using Transmission and Scanning Electron microscopy on already sampled feathers in combination with genome wide mapping to identify the components to structural colour. These birds have previously been phenotyped for a variety of behavioural and life history traits, allowing analysis of pleiotropy and linkage between these trait types.

The second study system using an Asellus aquaticus crustacean model. This system is based on comparing a cave-adapted population with nearby stream and lake populations. The cave-adapted loss of pigmentation is also mirrored in the different lake ecotypes in the surrounding region, depending on the lake substrate. We have previously mapped pigmentation loci using a lab-based inter-cross (Bakovic et al 2021, Molecular Ecology), but this will now be broadened to mapping pigmentation loci in the surrounding lake ecotype populations using a GWAS approach, also allowing the simultaneous mapping of other ecotype traits to ascertain how these are regulated and also whether simultaneous selection is acting on these traits.

This post doctoral position requires a candidate with knowledge of quantitative genetics/ evolutionary genetics, with genomic mapping experience a plus. Working with R and bioinformatics knowledge is also beneficial. This will be a two-year post doctoral position, paid via a stipendium, at Link??ping University. Please contact Dominic Wright (dominic.wright@liu.se) for further information or to submit a CV and cover letter. The position will start in the beginning of 2022, with some flexibility regarding the exact start date. Closing date is the 4th November 2021.

Dominic Wright

Professor in Genetics

IFM Biology AVIAN Behaviour Genomics and Physiology group SE-581 83 Link??ping Mobile: +46 (0)700

895086 https://wrightlab.se https://liu.se/en/research/-wright-group Dominic Wright <dominic.wright@liu.se>

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LosAlamos HIVphylogenetics

PostDoc position in HIV phylogenetics

The Theoretical Biology & Biophysics group at Los Alamos National Laboratory has an open postdoctoral position in HIV phylogenetics. The successful candidate will develop a pipeline connecting evolution and epidemiology with the ultimate goal to predict and prevent HIV epidemics. We are collaborating with experimental groups that provide large collections of HIV sequence data and associated metadata. This project will elucidate how virus evolution is linked to different spread patterns. The position is funded through NIH grants.

We are looking for candidates with expertise in bioinformatics, computational biology, evolutionary biology, phylogenetics, and/or mathematical epidemiology. You must have a PhD in a related field within the past five years or soon to be completed. The PhD must be complete by commencement of appointment.

An ideal candidate will have experience in the following areas:

Computer programming

Computer modeling

Genetic evolution or phylogenetics

Demonstrated ability to publish peer-reviewed papers

Effective written and oral communication skills

And experience in the following areas is a plus: Virus systems and pathogenesis DNA sequence analyses

If you are interested in this position, please apply with a CV at https://lanl.jobs/search/-jobdetails/bioinformatics–phylodynamics-postdoctoral-researcher/6ff44e1b-9244-4705-a9ea-88f0671f0566 or contact Thomas Leitner at tkl@lanl.gov for more information.

Located in beautiful northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. Our generous benefits package includes: PPO or High Deductible medical insurance with the same large nationwide network Dental and vision insurance Free basic life and disability insurance Paid maternity and parental leave Award-winning 401(k) (6% matching plus 3.5% annually) Learning opportunities and tuition assistance Flexible schedules and time off (paid sick, vacation, and holidays) Onsite gyms and wellness programs Extensive relocation packages (outside a 50 mile radius)

“Leitner, Thomas Kenneth” <tkl@lanl.gov>

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Lyon ModelingEnzymeEvolution

Dear all,

We seek a postdoc to work on the joint evolution of enzyme kinetic parameters and the structure of metabolic networks. The appointment is for two years, at the LBBE in Lyon. The aim is to understand how the joint evolution, rather than the independent evolution of each entity (network and kinetic parameters) can lead to apparently counterintuitive observations (moderately efficient enzymes and redundant networks). A comparison with published empirical data is planned, although the prime goal is to reach an understanding of the evolutionary mechanisms at play. Details can be found here: https://lbbe-web.univ-lyon1.fr/en/annuaires-des-membres/rajon-etienne Best,

Etienne Rajon

Etienne Rajon, PhD - Assistant professor University Claude Bernard - Lyon 1

phone: (+ 33) 4 72 43 27 85 mobile: (+ 33) 6 82 68 36 01 email: etienne.rajon@univ-lyon1.fr or rajon@mac.com

RAJON ETIENNE <Etienne.Rajon@univ-lyon1.fr>

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MichiganStateU Three ReptileLifeHistory

3 Post-doc openings. Evolutionary Ecology Reptile Life Histories The labs of Fred Janzen andï¿½Anne Bronikowski ï¿½(www.kbs.msu.edu/research/labs/-janzen/) (www.abronikolab.com) are recruiting 3 Postdoctoral Research Associates to join their new labs at Kellogg Biological Station, Michigan State University (www.kbs.msu.edu). Post-docs will work on collaborative projects studying the evolution and ecology of life histories in wild populations of reptiles.

Three multi-year positions:ï¿½ 1. Evolutionary Ecology and Quantitative Genetics. Leveraging long- term data from a wild pedigreed population of turtles, as well as comparable information from geographically distant populations, to explore evolutionary aspects of temperature-dependent sex determination to gain insights relevant to conservation and responses to anthropogenic habitat/climate change.ï¿½ ï¿½ 2. Field Ecology and Life Histories. Co-lead field teams to continue long-term demographic, epi/genomic, and environmental data collection related to local adaptation in: i) populations of painted turtles, and ii) the Eagle Lake California garter snakes. Collaborators on these projects include Beth Reinke (www.neiu.edu/faculty/beth- reinke), David Miller (www.ecosystems.psu.edu/directory/dxm84), and Kaitlyn Holden (Iowa State University).ï¿½ 3. Comparative Physiology and Genomics of Aging. Comparative genomics and physiology of cellular stress and repair mechanisms related to sex-specific aging in wild populations of reptiles as part of our new NSF Biology Integration Institute (https://iisage.github.io/) across 8 institutions (https://beta.nsf.gov/news/integrative-biological-science- training- are-focus).ï¿½

Prospects for training and collaboration acrossï¿½these themes are available, as well as emergent opportunities that arise from candidate interests. Our post-doctoral mentoring philosophy includes providing (1) opportunities for professional development and mentoring of scholars, (2) time for independent project development, and (3) resources for outreach and activities that promote diversity, equity, and inclusion in STEM. Successful applicants will be based at KBS within a vibrant group of post-docs, with opportunities for travel and collaboration on MSU campus and other institutions. We are committed to fostering a diverse, equitable, and inclusive environment.ï¿½Please include your specific position interest(s) in your Cover Letter. Details and instructions for applying:ï¿½https://careers.msu.edu/-en-us/job/512577/research-associatefixed-term .ï¿½ Feel free to reach out to Fred (janzenf1@msu.edu) or Anne (abroniko@msu.edu) with questions.

“Bronikowski, Anne” <abroniko@msu.edu>

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MichiganStateU Two ZebrafishEvolution

Postdoc positions (2), evolutionary and functional genomics, Michigan State University, East Lansing MI Summary: We seek two postdoctoral research associates to join our research efforts on evolutionary and functional genomics in zebrafish and sea lamprey. The successful applicants will work as part of an interdisciplinary group and leverage a newly renovated laboratory designed for rearing and genetically modifying sea lamprey and zebrafish to 1) study the genomic regulation of reproduction, development, or life history strategies in sea lamprey and zebrafish and 2) develop and evaluate the efficacy of approaches to generate genetically modified sea lamprey. Specific research questions are flexible depending on the selected candidates’ interests and could be related to human health, evo-devo, behavioral ecology, invasive species control, or other fields. Qualified applicants must have molecular biology and cloning skills and experience or interest in genome editing using CRISPR/CAS9; interest in collaborating with graduate students and postdoctoral research associates from diverse disciplines and academic backgrounds; excellent written and oral communication skills; and experience working in a diverse environment and in programs designed to promote inclusion. Candidates with a doctorate in molecular biology, genetics, genomics, or related fields will be considered.

This is an annual position, renewable for up to five years.

For more information, please contact Dr. Weiming Li (liweim@msu.edu) and/or visit https://-www.lilabmsu.com/ Review of applications will begin 1 November 2022 and continue until the position is filled.

Please apply at Careers@MSU website: https://-careers.pageuppeople.com/782/ci/en-us/job/509051/-

research-associatefixed-term Tyler Buchinger, PhD Department of Fisheries and Wildlife

Michigan State University

Google Scholar profile

Tyler Buchinger <buching6@msu.edu>

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MNHN-CNRS France ExtinctionHistoricalDNA

Postdoctoral position in historical DNA, extinction risk, and a genetic time series

A postdoc position is available to work on historical DNA from bird museum skin specimens and fresh samples to develop a novel real-time assessment of genetic response to anthropogenic environmental change across multiple bird species following first human arrival in a pristine environment. The time series is designed to examine the long-term processes leading to variation in extinction risk between closely related species, comparing differences in demographic and selective responses to common environmental changes. The position is part of a project funded by the French National Research Agency (ANR), that links competences of two research centres in France. In Toulouse, the UMR CAGT is among the leading laboratories worldwide in ancient DNA studies, and will be the postdoc's base for the historical DNA guidance and wet-lab work.

In Paris, the French National Museum of Natural History (MNHN) houses important specimens for the study, and is also home to expertise in genome-wide demographic analyses and method development, as well as in links between extinction risk, evolutionary history, and the study set up. See below for further details and to apply

Postdoctoral position in historical DNA, extinction risk, and a genetic time series

ANR project Suscept-Ext: Understanding susceptibility to extinction using historical museum specimens as a genetic time series

French National Museum of Natural History (ISYEB, MNHN), Paris University of Toulouse (CAGT - CNRS)

Scientific Coordinator, Paris: Ben Warren Toulouse partner lab coordinator: Catherine Thï¿½ves Toulouse participants: Ludovic Orlando, Lounï¿½s Chikhi Paris participants: Stefano Mona, Guillaume Achaz UK collaborator: Julian Hume

Evolutionary history is expected to play a major role in determining which species decline in population size to extinction in response to environmental change, but the processes by which this comes about are poorly understood. Although population genetic studies provide much promise to understand the microevolutionary processes behind macroevolutionary patterns of extinction risk, inferences can be limited by our confidence in the timescales inferred, and by the scale of such studies, which frequently include only one lineage. As a key-player in project ANR Suscept-Ext, the postdoc will tackle both of these issues, applying ancient DNA methods to museum samples to obtain a genome-wide time series for multiple Mascarene island bird lineages that differ in abundance and other biological traits. Islands in the Mascarene archipelago (Mauritius & Rï¿½union), Indian Ocean, are unusual among sizable and biologically diverse landmasses worldwide, in that they had no human population until European arrival 400 years ago. Therefore, there exist museum samples and subfossils spanning the full duration of anthropogenic environmental change, allowing a real-time assessment of genetic response to environmental changes of known timing and across multiple species following first human presence.

We are looking for candidates suitable for one or both of the following goals:

1)Applying existing protocols to obtain shotgun genomes and/or hyRAD data from museum skin samples (toepads), complementing hyRAD data already obtained from sub-fossils. Work to be conducted at the University of Toulouse, CAGT lab.

2)Analysing the resulting genetic time series (modern and historical genome- wide data of varying completeness) to track temporal changes in demography (and/or selection) since first human arrival in the Mascarenes ~ 400 generations ago. Work to ideally be conducted at the Paris Museum (MNHN, ISYEB research centre), interacting with the Paris- based team.

We have approximately 1 year and 7 months of postdoc contract remaining (depending on experience), to be allocated according to suitability for the above goals, starting between the Early Spring and Summer of 2023.

A PhD student who began in January 2022 will work alongside the postdoc involved in data analysis, and has already developed the primary bioinformatic pipeline for data alignment.

Candidates should have a strong interest in the broad theme of the study - understanding the role of evolution-

ary history in determining which species decline towards extinction in response to environmental change. Furthermore, those applying to work on the analyses should be interested in relevant population genomic methods, and ideally have experience of using them.

For informal enquiries please contact: Catherine Theves (catherine.theves@univ-tlse3.fr) concerning historical DNA wetlab work, Stefano Mona (stefano.mona@mnhn.fr) concerning population genomic analyses, Ben Warren (bwarren@mnhn.fr) concerning the overall project (expected to be in the field with limited email from Nov 1st to Dec 3rd).

To apply informally:

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NHGRI-NIH Bethesda BioinformaticsComparativeGenomics

Computational and Statistical Genomics Branch National Human Genome Research Institute National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Comparative Genomics

A postdoctoral training position is currently available in the Computational and Statistical Genomics Branch (CSGB) of the National Human Genome Research Institute (NHGRI). The position is in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models can be used to convey critical insights into human disease research, in line with the NIH Intramural Research Program's renewed emphasis on developing new animal models for the study of basic biology.

With this translational context in mind, Dr. Baxevanis' group is currently leading international efforts to sequence two cnidarian species: Hydractinia and Podocoryna. The regenerative abilities of these colonial hydrozoans make them excellent models for the study of key questions related to pluripotency, allorecognition, and stem cell biology, work that will be significantly advanced by the availability of high-quality whole-genome sequencing data from these organisms. The successful applicant will have the opportunity to develop and apply bioinformatic approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families and biological pathways that have putative roles in disease causation.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in comparative genomics or evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as a Top 500 high-performance computing resource available through NIH's Center for Information Technology.

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential references to Dr. Baxevanis at andy@mail.nih.gov. Postdoctoral traineeships are not available to scientists who have more than five years of relevant research experience since the receipt of their most recent doctoral—degree.

For more information, please visit https://irp.nih.gov/pi/andy-baxevanis . The NIH is dedicated to building a diverse community in its training and employment programs.

"Baxevanis, Andy (NIH/NHGRI) [E]" <andy@mail.nih.gov>

NorthCarolinaStateU BumbleBeeEvolution

Postdoctoral Research Associate - Measuring Bee Health

An exciting postdoctoral research scholar position is immediately available in the laboratory of Dr. Kelly A. Meiklejohn within the Department of Population Health and Pathobiology at North Carolina State University. The project is funded by the Army Research Office and is centered on holistically understanding stress in wild bumble bees across an urban to rural gradient, particularly in the context of landscape and land-use characteristics using a combination of genetic and biochemical approaches.

The postdoctoral research scholar will be responsible for dissecting insect samples; extracting and purifying RNA from insect tissues; RNA library preparation; extracting and purifying biochemicals (crude proteins, lipids, and sugars) and quantifying with colorimetric tests; detecting and quantifying pathogens (eurkaryote and virus) in insect tissues with qPCR; analyzing data (gene expression, pathogen detection/quantification, biochemical tests); developing integrated tests to evaluate potential impact of geographic, temporal, and land-use characteristics; and communicating results at scientific conferences and through peer-reviewed manuscript(s). For more information please see: https://jobs.ncsu.edu/postings/173258 Queries about this position should be sent to kameikle@ncsu.edu. Priority will be given to applications received by November 30th. Start date is flexible and funding is guaranteed for 2 years, with a subsequent year renewable depending on progress. Full applications should be submitted on the NC State University jobs portal.

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Kelly A Meiklejohn, PhD

Assistant Professor of Forensic Science

Dept. of Population Health and Pathobiology

NC State University

College of Veterinary Medicine

1060 William Moore Dr.

Raleigh, NC 27607

*Office: *Research Building 392

Phone: 919-515-4748

Email: kameikle@ncsu.edu

Kelly Meiklejohn <kameikle@ncsu.edu>

NorthCarolinaStateU Comp PopGen

The Guerrero Lab at North Carolina State University has an open postdoc position. Research in the lab is focused on computational approaches to chromosome evolution and processes of population divergence. More information can be found at: rguerrer.org

Because our work is largely computational, this postdoc position is ideal for someone with experience in quantitative approaches (programming, command-line bioinformatics, population genetics), but we will consider candidates with an interest in developing these skills.

Compensation will follow NIH pay scale + $5K/year (i.e. starts at $60K). The position will have a guaranteed $3K/year for travel, and up to $10K for independent research. The Guerrero lab is currently funded by an NIH MIRA award (2022-2027). The start date is flexible (Spring/Summer/Fall 2023).

How to apply: - Submit your CV along with a brief description of relevant experience (in PDF format) to Rafael Guerrero (email rfguerre@ncsu.edu). - Review of applications will start November 1st and will continue until the position is filled.

Rafael F. Guerrero Department of Biological Sciences North Carolina State University

Rafael Guerrero <rfguerre@ncsu.edu>

Norwich InsectGenomics

1004338 Postdoctoral Researcher - To post Reply-To: “nbi recruitment (NBI)” <nbi.recruitment@nbi.ac.uk>

Good afternoon,

We are looking for a creative evolutionary biologist to lead genomic analyses of sap-feeding insects, e.g aphids etc. Chromosome-level assemblies, transcriptomes, proteomes and population genomics data for many species are already available

Postdoctoral Researcher Salary: 33,050 - 40,750 per annum depending on qualifications and experience. Contract: 3 years, full time Location: John Innes Centre, Norwich, UK. Closing date: 26th October 2022 Reference: 1004338

Applications are invited for a Postdoctoral Researcher to join the group of Prof Saskia Hogenhout < https://www.jic.ac.uk/people/saskia-hogenhout/ > (twitter: @SaskiaHogenhout) at the John Innes Centre (JIC) to study molecular processes in host-pathogen interactions.

The overall aim of the project is to identify key evolutionary events that enabled sap-feeding hemipteran insects and their microbial symbionts/pathogens to colonize plants.

Our established systems include a range of sap-feeding insect species, such as aphids, psyllids, whiteflies, leafhoppers and spittlebugs/froghoppers, and knowledge of their microbiomes, plant host ranges and feeding behaviours. We have generated annotated chromosome-level genome assemblies, transcriptomes, proteomes and/or population genomics data for 40 hemipteran species. See for example Mathers et al. (2022) < https://doi.org/10.5281/zenodo.5908005 >, Biello et al. (2021) < https://doi.org/10.5281/zenodo.3368385 > and Biello et al. (2021) < https://doi.org/10.5281/zenodo.4681171 >.

The successful applicant will be able to creatively explore these -omics data to elucidate key evolutionary events that enabled plant colonization of sap-feeding hemipteran insects and their microbial symbionts/pathogens. They will conduct comparative genome and phylogenetic analyses and explore a variety of approaches to identify genes involved in plant colonization, feeding and the modulation of plant processes. Additional genome and transcriptome data may be generated as appropriate. The candidate will be encouraged to publish their findings as preprints, public data repositories and open access peer-reviewed publications and develop ways to make genomes and associated data easily accessible to a wide audience.

The post holder will possess at least an PhD or equivalent experience in Evolutionary Genomics, Bioinformatics, Genetics or related fields and has experience in the processing and analysis of next-generation sequence data and conducting population genomic analyses. They will have a solid understanding of statistics in biology, possess good scripting skills in Python, Perl or Java and has prior experience with handling high-throughput sequencing data and a Linux/Unix environment. Candidates will have an interest in learning how to generate whole-genome assemblies and de novo genome annotations within a high-performance cluster environment. Given that the project offers ample opportunities to write up studies as datasets and scientific publications, candidates will require excellent writing skills.

About the John Innes Centre:

The John Innes Centre is an independent, international centre of excellence in plant and microbial sciences. We nurture a creative, curiosity-led approach to answering fundamental questions in bioscience, and translate that knowledge into societal benefits. Our strategic vision, Healthy Plants, Healthy People, Healthy Planet, sets out our ambitious long-term goals for the game changing impact of our science globally. Our employees enjoy access to state-of-the-art technology < https://www.jic.ac.uk/research-impact/technology-research-platforms/ > and a diverse range of specialist training opportunities, including support for leadership and management. Click here to find out more about working at the John Innes Centre. < https://data.nbi.ac.uk/Recruitment/Vacancies/FurtherInformationJIC.pdf >

About the Hogenhout Group:

The Hogenhout group at the John Innes Centre focuses on understanding the mechanisms that drive interactions between plants and insects and the role of microbes in these interactions. The group is particularly interested in aphids, whiteflies, leafhoppers, spittlebugs/froghoppers and other sap-feeding insects of the order Hemiptera. The saliva of these insects contains virulence factors (effectors) that modulate plant responses and aid insect colonisation. The research focuses on the identification

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OhioStateU MicrobiomeDataScience

POSITION. We are seeking a postdoctoral scholar with significant experience in

evoldir@evol.biology.mcmaster.ca predictive modeling expertise. Additionally, a successful candidate must have an interest in academic administration, leadership, undergraduate education, and/or trainee recruitment and retention. Additionally, the ideal candidate will have a strong interest and commitment toWe are seeking a postdoctoral scholar with significant participating in diversity, equity, and inclusion activities within academia. This is a full-time, 2-year position with possibilities for extension.

POSITION DETAILS. The successful candidate will be working (>75% of the time) in the Insect-Microbial Symbiosis Lab (IMSL) in the Department of Evolution, Ecology, and Organismal Biology at The Ohio State University. IMSL is interested in using machine learning and predictive modeling to identify microbial features (i.e., species, functions, and products) that are essential for normal animal growth and development and then testing these predictions in a live, germ-free/gnotobiotic model invertebrate.

This appointment is cosponsored by the Ohio State University Graduate School, the Ohio State University Office of Postdoctoral Affairs (OPA), and the W.K. Kellogg Foundation. The postdoc will contribute up to 25% of their time to OPA activities. Some examples of these activities include supporting OPA leadership in the development and implementation of professional development, career services, mentorship, and DEI initiatives across Ohio State, participating in undergraduate and graduate teaching, and participating in trainee (undergraduate, graduate, and postdoctoral) recruitment and retention activities. In addition, the postdoc in this position would have the ability to identify additional OPA activities to contribute to or design that best align with their career interests.

DUTIES. Developing and applying multiomics analyses pipelines; effectively applying predictive modeling approaches in a microbiome science context; performing data science and statistical analyses; coauthoring peer-reviewed manuscripts; contributing to grant proposals; mentoring graduate and undergraduate students; giving talks at local, state, national and international meetings

QUALIFICATIONS

* a relevant university education with a completed doctoral/PhD degree and a strong interest in the microbiome sciences, * demonstrated proficiency in command line and high-performance computing, * demonstrated script writing skills in at least one language (R, Python or Perl), * demonstrated experience developing bioinformatic pipelines and using machine learning/predictive modeling tools, * exceptional organizational skills and strong ability to work independently and collaboratively, * willingness to supervise undergraduate and graduate students, and to promote young scientists, * excellent spoken and written communication skills

SALARY AND BENEFITS

* This position will be paid a salary minimum of $58K, includes full staff benefits, and is eligible for annual merit pay increases pending annual performance review (as informed by postdoctoral mentoring plan). * This position includes a $5,000 start-up to be used by the postdoc to establish research and academic activities at the university and to pursue professional development opportunities. * The Ohio State University offers a highly collaborative, supportive and interdisciplinary environment and provides postdocs with access to professional development and cross-training experiences.

APPLICATION (please send a single PDF containing ALL of the following to sabree.8@osu.edu)

* Cover letter that details your interest in the position and how you fit the description. Please also include how you have engaged in (or plan to engage in) activities that improve and/or increase inclusivity and equity within your discipline, prior research/educational spaces and/or future workspaces. * CV that includes a bibliography and any experiences relevant to the responsibilities described above. * Please submit up to three published, coauthored papers that reflect your skills as relevant to this position and/or across the fields of microbiology, evolution, ecology, and other relevant biological sciences. * Names and contacts for at least three professional references

Contact Zakee Sabree sabree.8@osu.edu if you have any further questions.

Zakee L. SABREE PhD (he/his/him, vaccinated < https://www.vaccines.gov/ > and boostered < https://www.cdc.gov/coronavirus/2019-ncov/-vaccines/booster-shot.html >) Associate Professor, Department of Evolution, Ecology and Organismal

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OhioU PlantEvolution

POSTDOCTORAL RESEARCH POSITION IN FLORAL EVOLUTION

The Schenk Lab at Ohio University is looking for a Postdoctoral Researcher to start an NSF Funded project in January 2023. The position will be in person in Athens, Ohio for two years and includes travel support for research and conferences.

Brief Project Overview: Flowers have experienced extraordinary morphological changes through evolutionary time that includes multiple origins of novel, non-fertile structures. Because flowers are a complex network of interconnected parts, they provide an ideal system for studying integrated-trait evolution in response to functional cooption. We are investigating coopted floral structures called staminodes, which are sterile stamens that can perform novel functions, such as nectar production, pollinator attraction, or enhanced pollen dispersal or deposition. Staminodes provide an exceptional opportunity for revealing the evolutionary consequences of functional cooption in an integrated system. The project will study staminodes in Mentzelia (Loasaceae) to answer the question: Is there an evolutionary response to compensate for the loss of reproductive function when a structure is coopted to perform a novel function?

Research tasks: The postdoctoral research associate will be expected to conduct experiments, including genomic library preparation and sequencing, phylogenomics, phylogenetic comparative approaches, morphological characterization of floral traits, floral manipulation experiments with natural pollinators, and field work in the western U.S. The successful candidate will have the opportunity to attend and present work in national and international meetings and publish research results. The postdoctoral research associate will co-mentor undergraduate students and collaborate with a Ph.D. student, research associates, and the PI.

Qualifications: The Postdoctoral Scholar must have earned their Ph.D. in Botany, Biology, or a closely related field before the hiring date. Successful candidates are preferred to have research experience in plant evolution, phylogenetic comparative approaches, floral morphology and evolution, and/or pollinator ecology.

Application process: Please submit a cover letter that outlines your previous research experiences, CV, contact information (name, phone number, email, and mailing address) for three professional references, and one publication that best represents your qualifications to https://www.ohiouniversityjobs.com/postings/43426. Applications received by Oct. 31st, 2022 will receive full consideration; however, applications will be reviewed until the position is filled. Please see the above link for additional information about applying and qualifications.

For more information, see:

Schenk Lab website: https://schenklab.weebly.com/ Environmental and Plant Biology at OU: https://www.ohio.edu/cas/plant-biology Our NSF funding: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2117446 Application link: https://www.ohiouniversityjobs.com/postings/41476 Ohio University is proud of its rich history, diverse campuses, international communities, and beautiful Appalachian settings. As part of our ongoing efforts to provide and support a transformative learning experience, we affirm our commitment to fostering a welcoming, respectful, diverse, and inclusive workforce and community. All qualified applicants are encouraged to apply and will receive consideration free from discrimination on the basis of race, color, religion, age, ethnicity, national origin, national ancestry, sex, pregnancy, gender, gender identity or expression, sexual orientation, military service or veteran status, mental or physical disability, or genetic information. Ohio University is an equal access/equal opportunity and affirmative action employer.

John J. Schenk, Ph.D. Assistant Professor Department of Environmental and Plant Biology Ohio University 401 Porter Hall Athens, Ohio 45701-2979 Office phone: (740) 593-0716 E-mail: schenk@ohio.edu Lab website: https://schenklab.weebly.com “Schenk, John” <schenk@ohio.edu>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<mailto:golding@mcmaster.ca>)

RuhrU Bochum Two PopulationGenomics

Dear EvolDir mailing list members,

The Kraemer lab (@PlantAdaptation) is looking to recruit a postdoctoral researcher in population genomics for 3 years (contract can be extended by another 3 y or more, based on performance) to complement our inter-

disciplinary team that studies the genetic basis of trait diversification in Arabidopsis halleri (ANR 1089). In addition, a one-year postdoc position is open for applications for a "Data Steward" from 1st January 2023 (ANR 1093). Deadline for applications is 31 October 2022. (Ads below)

At present, we are particularly interested in demographic modeling in the diploid outcrossing perennial species A. halleri and in the use of coalescent simulations for the timing of genomic events, such as specific structural mutations in the genome of A. halleri that we identified as candidates for major phenotypic divergence in heavy metal tolerance or hyperaccumulation in the species, or the introgression of specific genes (gene sets) into the sister species A. arenosa.

In addition, we have lineage- and population-specific chromosome-scale long-read genome assemblies, and their analysis, annotation, and examination at specific loci of interest is of high priority for us, as well as completing additional long read-based assemblies, with the aim to understand how structural variation arises and how it contributes to adaptive variation in extreme physiological traits in Arabidopsis halleri.

We have re-sequenced the genomes of ca. 900 individuals of A. halleri from all across Europe, as well as of about 100 A. halleri and A. arenosa individuals from an area where metal hyperaccumulation was introgressed from A. halleri into A. arenosa. We have already completed a lot of analyses including GWAS, some genome scans for introgressions, and others, and we have highly promising results to build on.

ANR1089 Postdoctoral Researcher Population, evolutionary and ecological genomics (100% TvL-E, 3 years initially, with possible extension) In the group of Professor Dr. Ute Krämer, Chair of Molecular Genetics and Physiology of Plants, Ruhr University Bochum. We are looking for a highly motivated researcher (PhD) with a strong background in the computational analysis of nucleotide sequence data, and with specific expertise in evolution, genome analysis, genetics or transcriptional networks. The successful candidate will make substantial contributions to one or several ongoing projects addressing the genetic basis of local adaptation and rapid evolution in the extremophile plant species Arabidopsis halleri (1, 3). Activities could include, for example, population genomics and demographic analyses, genome assembly, genome annotation and genome analysis (e.g. structural variation), or the analysis of large-scale transcriptome data and transcriptional networks in A. halleri.

The work will take advantage of the enormous within-species trait diversity among ca. 850 field-collected A. halleri accessions in our lab, which originate from 165 well-characterized field sites and were edaphically and ionomically indexed in the field (2). Large-scale datasets from short-read and long-read genome re-sequencing, transcriptomic and phenotypic data are available and under analysis in our lab through ERC Advanced Grant LEAP-EXTREME. The successful candidate will have excellent programming skills using R/bioconductor, Python or Perl, and will have demonstrated the ability to manage and work with large-scale biological datasets, to cooperate and communicate within an interdisciplinary research team and to work independently. We offer a long-term contract with a possibility of extension, the opportunity for professional development towards an independent career, and a salary at TvL-E13 or E14 (depending on project-specific qualifications).

We are a highly interactive and international enthusiastic group of researchers from a variety of disciplines (http://www.rub.de/mgpp/kraemer.html), with access to an excellent research infrastructure, also through TRR 341 "Plant Ecological Genetics". A contribution to teaching in our Faculty of Biology and Biotechnology is expected. Ruhr University Bochum (RUB) is among the leading research universities in Germany. As a modern reform-oriented University hosting ca. 40,000 students, RUB bundles the entire scope of scientific disciplines on a single campus. Bochum is a medium-sized city of around 300,000 inhabitants positioned in the heart of Central Europe, within the Rhein-Ruhr metropolitan region of more than 5 million inhabitants. Short- and long-distance public transport is seamless, with fast access to the neighbouring countryside as well as the cultural programme in the Rhein-Ruhr area. The University provides outstanding family support and day-care facilities. Please send your application, including a cover letter summarizing your expertise and

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SanDiego NHM MarineMammalPaleontology

Applications are invited for a Postdoctoral Fellowship position in the Department of Paleontology at the San

Diego Natural History Museum (SDNHM). The James R. Colclough Paleontology Postdoctoral Fellowship supports research in marine mammal paleontology. The Fellowship was created to honor the memory of James R. Colclough, longtime volunteer in the Department of Paleontology, and is funded by the James R. Colclough Paleontology Endowment.

OBJECTIVE: The Fellowship is designed to advance the academic and professional training of the next generation of vertebrate paleontologists by providing them with the funding and facilities to pursue specific, time-limited research projects in association with Museum scientists and utilizing vertebrate fossil specimens housed in the SDNHM Department of Paleontology.

RESPONSIBILITIES: Duties will include conducting original research in marine mammal paleontology, providing research assistance to the Curator of Paleontology, and introducing new technologies and analytical methods into the Museum setting. Postdoctoral Fellows are expected to be in residence at SDNHM full time and actively engaged in the SDNHM community. The position will include opportunities for interactions with colleagues at nearby San Diego State University, University of California San Diego, and University of San Diego.

QUALIFICATIONS: To be considered for this position, applicants must have received a PhD degree within the past six (6) years. Soon-to-graduate PhDs may apply, but all formal requirements for a PhD must be completed before the start of the appointment.

In compliance with the San Diego Natural History Museum's mandatory vaccination policy, the Museum requires proof of full vaccination against COVID-19 as a condition of employment. Accommodations based on medical and religious exemptions will be considered.

This is a full-time, position with benefits such as health insurance, vacation, 15 paid holidays, reciprocal free admission to all of Balboa Park's museums, as well as to the San Diego Zoo and Safari Park.

COMPENSATION: Annual compensation is $64,480, plus fringe benefits. Supplemental research funds also may be available. Appointments will typically be made for two years contingent on satisfactory progress in year one.

STARTING DATE: On or about October 1, 2023.

Thomas A. Demï¿½rï¿½, Ph.D. Curator of Paleontology Director of PaleoServices

P 619.255.0232 C 619.540.1870 E tdemere@sdnhm.org

If we seem busy, it's because we have millions of years of work to do. Find out what we're up to.ï¿½

Tom Demere <tdemere@sdnhm.org>

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StockholmU EvolutionaryGenomics

Evolution of a classic supergene ïÂ¿Â½“ Carl Tryggers Postdoctoral Fellowship

A two-year Carl Tryggers Postdoctoral Fellowship is now available to work on supergene evolution in the Slotte lab at Stockholm University.

Project Supergenes control complex phenotypic polymorphisms under balancing selection through the preservation of advantageous allelic combinations. Distyly in flowering plants is an iconic example of a multi-trait polymorphism controlled by a supergene. In this project, we aim to study the evolution of the distyly supergene in Linum (wild flaxseed species), a plant system that is ideal for this purpose. We have recently discovered and characterized the distyly supergene in the species Linum tenue (Gutiérrez-Valencia et al. 2022, Current Biology; https://doi.org/10.1016/j.cub.2022.08.042). Building on this discovery, the postdoc will test hypotheses on the evolution and loss of the Linum distyly supergene in a comparative framework, using genomic data from a larger set of Linum species.

Main responsibilities The main responsibility of the Carl Tryggers postdoctoral fellow will be to lead and conduct evolutionary genomic analyses of the evolution of the distyly supergene and its repeated loss. Depending on the applicant's interests, there are also opportunities to study the genomic impact of mating system shifts associated with breakdown of distyly in Linum. For this purpose, the postdoc will be able to draw on high-quality genome assemblies, population genomic data and expression data for a larger set of Linum species, generated as part of the ERC-funded project SuperGenE.

Qualifications The position is for two years, funded by a stipend from the Carl Tryggers foundation. According to the rules of the Tryggers foundation, the PhD degree must be less than six years old, and applicants must receive final approval by the foundation.

Applicants are required to hold a PhD, preferably in evolutionary genetics, population genetics, comparative genomics, bioinformatics, or related topics. The candi-

date should have proven experience in genomic analyses, ideally with an evolutionary genetic focus. Candidates should have strong writing skills, be able to work independently as well as together with team members, and exhibit drive and motivation for the research task. Excellent proficiency in English (the working language of the group) is required.

Environment The Carl Tryggers postdoctoral fellow will be based in the international research group of Prof. Tanja Slotte (http://tanjaslottelab.se), consisting of PhD students, postdocs and technical staff with a common interest in plant evolutionary genomics. We offer a friendly working environment and access to training in both subject-specific skills and soft skills. The group is part of an active population genetics and genomics research community at Stockholm University and has full access to facilities for molecular genetic lab work and plant work, as well as high-performance computing infrastructure. The Stockholm University campus is located only four metro stops from the centre of Stockholm, one of the most beautiful and dynamic European cities (https://www.visitstockholm.com). Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Application To apply for the fellowship, please email a pdf with a cover letter motivating your interest and suitability for the fellowship, a CV including contact information to 2-3 references, a publication list and a copy of your PhD diploma directly to tanja.slotte@su.se. Please specify "Carl Tryggers postdoc 22" in the subject header. The fellowship will remain open until filled, with application review starting on November 17, 2022.

For more information, see https://tanjaslottelab.se/-join-the-lab/ For informal questions about this fellowship, please contact Prof. Tanja Slotte directly at tanja.slotte@su.se.

Tanja Slotte Professor, Subject Representative for Ecology and Evolution Department of Ecology, Environment and Plant Sciences (DEEP) Stockholm University 106 91 Stockholm

E-mail: tanja.slotte@su.se

Switzerland AerialInsectBirdMovements

Post-doctoral researcher "Aerial insect and bird movements, 80 - 100%"

The Swiss Ornithological Institute (http://-www.vogelwarte.ch/) in Sempach is a non-profit foundation supported by the public and focuses on a wide range of research topics on wild birds within and beyond Switzerland. We aim to strengthen the scientific basis for the understanding of biological systems and for the conservation of birds and their habitats.ï¿½ In the bird migration unit, we focus on understanding the temporal and spatial patterns of bird migration, for example by quantifying mass migration across Europe using radar and other methods, and studying the movements of other taxa such as bats and insects. To foster our understanding of the relationship between aerial insect and bird movements, we are looking for aï¿½Post-doctoral researcher "Aerial insect and bird movements" (80-100%).

The postdoctoral researcher will work within the MoveInEurope project to: (1) investigate the spatiotemporal interactions of aerial insect and migratory bird movements across Europe, and (2) determine the drivers and consequences of differences in activity across time and space. MoveInEurope is an international scientific collaboration aiming at quantifying the biomass flows and movement patterns of aerial insects in Europe, from regional to continental scales and over timescales from days to years, using radar data. We are particularly interested in identifying the atmospheric, climatic, and landscape/habitat drivers of migratory animal movements. MoveInEurope grew out of GloBAM (https://globam.science/), a BioDivERsa (http://www.biodiversa.org/) research project with partners in Switzerland, Belgium, Finland, The Netherlands, and the USA.

Your specific tasks . Analyse data from a network of vertical-looking radars across Europe to quantify bird and insect movements over time, and in particular the links between the two taxa . Establish the difference in type and timing of environmental and anthropogenic influences on both animal groups and what the implications of these differences may be for insectivorous birds under several future change scenarios . Publish your findings in scientific journals

Your profile . ï¿½PhD in ecology, biology, remote sensing, or related discipline . Background in bird or insect ecology . Strong quantitative skills and proficiency in a programming language, preferably R . Experience with radar data processing is of interest, but not essential . Excellent communication skills and interest in working in a collaborative project ï¿½ We offer . An international, dynamic, and flexible research group working on animal migration . Collaboration with leading national and international researchers . The position is for 2 years with possibility of extension for an additional year,

with a starting date in early 2023. . Place of work is Sempach, Switzerland.

Application and contact We look forward to receiving your online application by 2 November 2022. Please send your application documents (motivation letter detailing your research interests and fit to the position requirements - max 2 pages, your CV with publication list, and contact details of two academic references) in a single PDF file via our application portal here. Interviews will take place in the week of 14-18 November 2022. For more information about the position or the MoveInEurope project, please contact Birgen Haest (mailto:Birgen.Haest@vogelwarte.ch) and Silke Bauer (mailto:Silke.Bauer@vogelwarte.ch). The Swiss Ornithological Institute is committed to increasing diversity and encourages applications from all qualified persons.

Birgen Haest <Birgen.Haest@vogelwarte.ch>

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TexasAMU MicrobialEvolutionGenomics

Hi All,

I'm looking to hire a post-doctoral fellow in microbial experimental evolution and/or genomics and/or genetics for my new lab at Texas A&M. We are located in Fort Worth. The job posting is below; here is the link: https://tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/Fort-Worth-AL-RSCH/Post-doctoral-Fellow_R-055010 All the best,

Alex

The Wong lab at Texas A&M (Fort Worth) studies microbial genetics, genomics, and evolution. Areas of interest include antimicrobial resistance, pathogen surveillance, and the impact of genetic background on the evolutionary process. The post-doctoral fellow will conduct laboratory research, mentor students, and publish research findings. Specific research topics will be decided in consultation with the PI.

Duties

* In consultation with the PI, design and execute experiments in microbial genetics, evolution, and/or genomics. Keep detailed records of associated experimental details and research data including the development and maintenance of Standard Operating Procedures. * Perform data analysis and statistical analysis of research experiments and results. * Supervise and provide training to junior- and mid-level technical support staff, graduate students, and/or undergraduate students. * Lead the writing of research-based publications. * Follow appropriate laboratory safety procedures for handling, disposing of and keeping inventory of hazardous chemicals and. * Assist in coordinating lab inventory and equipment. * Minimum Education A PhD degree in biology, biochemistry, genetics, microbiology, or other closely related fields.

Minimum Experience Laboratory-based PhD research in microbial genetics, genomics, and/or evolution.

Knowledge, Abilities, and Skills Experience with standard microbiological methods, including sterile technique and microbial culturing. Experience handling biosafety level 2 organisms is an asset but not required. Experience with standard molecular biology techniques, including PCR and gel electrophoresis. Familiarity with Microsoft Word and Excel; experience in other statistical analysis software (R; Jump; SASS) is an asset but not required. Experience with the analysis of next-generation sequence (NGS) data is an asset but not required. Candidates who do not have experience in this area will be expected to learn NGS data analysis, with guidance from the PI. Experience with data analysis and interpretation. Effective verbal and written communication skills. Willingness to attend workshops, seminars, and conferences. Proven ability to collaborate with others.

Alex Wong <alex.wong@ag.tamu.edu>

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TexasTechU BioinformaticsMethods

The Johnson Lab at Texas Tech University (Lubbock, Texas) is looking for a postdoctoral scholar to develop novel bioinformatics methods that extend targeted DNA sequencing in plants for used on mixed and unknown samples. This two-year full-time position is funded by a Broad Agency Agreement from the United States Food and Drug Association Center for Food Safety and Nutrition (FDA-CFSAN). The successful candidate will work with Dr. Matt Johnson (Assistant Professor, TTU Department of Biological Sciences) to write open-source bioinformatics software ?¿‘ specifically, new methods that leverage Angiosperms353 data to extend the poten-

tial of metagenomics in plants and in collaboration with Dr. Sara Handy (FDA-CFSAN). You can find more information about the project at: www.mossmatters.com Applicants should have a PhD in biology (botany, evolution, genetics), computer science (bioinformatics, data science, software development) or a related field, with the degree completed before starting the postdoc position. Ideal candidates will have experience working with DNA sequence data in one or more programming languages (Python, C++, R, Java, etc) demonstrated through scientific publication and/or published code (e.g. GitHub). Preferred candidates will have strong written and oral communication skills and will have demonstrated ability to work both independently and as part of a research team.

The successful candidate will be expected to:

- generate a database of high-throughput targeted DNA sequencing data from plants - develop novel computational methods for the identification of plants using targeted DNA sequences from mixed collections - mentor graduate and undergraduate students in the development of bioinformatics skills - publish peer-reviewed manuscripts and present research results at national scientific conferences.

The Johnson Lab is dedicated to creating a diverse, equitable, and inclusive environment for generating high quality science, and the successful candidate is expected to share this commitment. Candidates from groups historically excluded in biological and computer science research are especially encouraged to apply. Review of applications will begin October 31, 2022 and will continue until the position is filled. Start date is flexible but can begin as soon as January 2023.

How To Apply: All candidates should e-mail Matt Johnson (matt.johnson@ttu.edu) to confirm their application.

Follow this link to the TTU employment page to apply for position 30800BR: https://bit.ly/3T3lryZ Note for current PhD students: If you state that you do not yet have a PhD, you may get an e-mail stating you are not qualified. That's not true! All applicants who will have a PhD by the position start date will be considered.

Requirements:

- Curriculum Vitae - Names and contact information for 3 references - Statement of interest (no more than two pages) describing: 1. Your experience high-throughput DNA sequencing 2. Your skills in bioinformatics and computer programming 3. Your commitment to working in a diverse, equitable, and inclusive environment

Compensation: This position will follow the NIH fellowship and training guidelines for post-doctoral researchers, commensurate with candidate experience.

mossmatters@gmail.com

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UArkansas EvolutionaryGenomics QuantGenetics

Summary of Job Duties:

The Department of Biological Sciences in the Fulbright College of Arts and Sciences at the University of Arkansas invites applications for the position of Postdoctoral Fellow in Genomics. We are looking for highly motivated postdocs and PhD students who are willing to tackle fundamental questions in both basic evolution and biomedical research. Research interests in the Zhuang Lab include Evolution of genetic novelty and diversity; Genetic basis of variation for complex traits and diseases; Molecular mechanisms of gene formation and gene loss. Investigations involve molecular evolution, quantitative genetics, genomics and bioinformatics, in model (fruit flies) and non-model organisms (polar fishes). Current projects in our lab are related to new gene and convergent genome evolution, and genetic basis of complex disease.

The primary responsibilities of this position are developing and implementing bioinformatics pipelines to carry out comparative genomic or quantitative genetics analyses, interpreting and organizing results into publishable papers and grant proposals. Other responsibilities include data management, mentoring students, and providing bioinformatics support for the lab.

Regular, reliable, and non-disruptive attendance is an essential job duty, as is the ability to create and maintain collegial, harmonious working relationships with others.

Minimum Qualifications:

* Ph.D. in Genomics, Bioinformatics, Evolution, Genetics, or related fields conferred by the start of employment * Strong written and oral communication skills, and ability to work independently and in collaboration with others

Preferred Qualifications:

* Research experience in one of the two directions: (i)

comparative genomics, evolutionary genomics; (ii) quantitative genetics, QTL mapping. * Proficiency in at least one programing language (e.g. Python, Perl, etc.) and one statistical program (e.g. R, SAS, etc.) * Experience working with and analyzing omic data sets (e.g. whole genome sequencing, RNA-seq, metabolomics, etc.) * Good understanding of evolution and genetics theory and methodology * Basic molecular biology wet lab skills

Required Applicant Materials: - Curriculum vitae - Cover letter/letter of application - List of three professional references (name, title, email address, and contact number) - Research statement describing previous research experience and future plans, specifically how it is related to research focus in our lab.

Application link:

https://uasys.wd5.myworkdayjobs.com/-en-US/UASYS/job/Postdoctoral-Fellow-in-Genomics_R0022940?locations=-17a66cdad98201f7890cfb48ca00e249 Please note that the Workday application link will expire on Oct 18th 11:59pm. CT. Please contact xz036@uark.edu for late applications.

Lab info: https://fulbright.uark.edu/departments/-biology/directory/index/uid/xz036/name/-Xuan+Zhuang/ https://zhuangxuan.wixsite.com/home xz036@uark.edu

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UArkansas NeuroEvoDevo

An NSF-funded postdoctoral fellow position is available in the Nakanishi lab (https://wordpressua.uark.edu/-nakanishi-lab/) at the Department of Biological Sciences, University of Arkansas. The primary field of the lab's research is cnidarian evolutionary developmental biology. In particular, this NSF-funded project will investigate the mechanism of life cycle transition, focusing on elucidating how neuropeptides control this process using the sea anemone Nematostella vectensis.

We are seeking a highly motivated and independent scientist with strong interests in advancing our understanding of the mechanism of cnidarian life cycle transition. The specific focus of the project will include 1) identification of neuropeptide receptors that are involved in metamorphosis regulation, and 2) characterization of the identity and function of transcription factors that are regulated by neuropeptidergic signaling at metamorphosis. In addition, the postdoc will be encouraged to develop an independent line of research that is broadly related to the NSF project theme and research interests of the lab. Moreover, the postdoc will have opportunities to mentor diverse students at the high school, undergraduate and graduate levels.

This is a full time, 40 hour per week position. The salary is commensurate with experience and education and includes full benefits.

This is a one-year appointment, with the possibility to extend up to two additional years renewable based on the need for the position, availability of funding, and continued satisfactory level of performance in the role.

For a complete position announcement and information regarding how to apply, visit: https://-uasys.wd5.myworkdayjobs.com/en-US/UASYS/job/-Postdoctoral-Fellow-in-Biology_R0024876?locations=-17a66cdad98201f7890cfb48ca00e249 .Applicants must submit a curriculum vitae, a cover letter/letter of application, a list of three professional references (name, title, email address, and contact number), and a one-page statement of research interests and goals. The position will close on 11/30/2022, and application review will begin immediately thereafter.

For more information, please contact Nagayasu Nakanishi, Assistant Professor in Biological Sciences, at nnakanis@uark.edu.

The University of Arkansas is an equal opportunity, affirmative action institution. The university welcomes applications without regard to race/color, sex, gender, pregnancy, age, national origin, disability, religion, marital or parental status, protected veteran or military status, genetic information, sexual orientation, gender identity or any other characteristic protected under applicable federal or state law. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Nagayasu Nakanishi, Ph.D Assistant Professor Department of Biological Sciences University of Arkansas Fayetteville, AR 72701 479-575-2031 (office) 479-575-7393 (lab) nnakanis@uark.edu https://-wordpressua.uark.edu/nakanishi-lab/ Nagayasu Nakanishi <nnakanis@uark.edu>

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UBuffalo Two sedaDNAr Paleogenomics

Cohort hire (Multiple Postdoc and PhD positions)

in Biological and Earth Sciences

Positions: 2 Postdocs, 3 PhD students Location: University at Buffalo, Buffalo, NY Start date: Spring 2023 (Biology postdoc), Fall 2023 (Earth Science postdoc, PhD students)

We are inviting applications for two Postdoctoral Researcher and three PhD student positions as part of a highly interdisciplinary and collaborative project funded by a new 4-year National Science Foundation, Understanding the Rules of Life - Emergent Networks award. The project will study Late Pleistocene-Holocene climate and ecological change during rapid warming events in Southeast Alaska. Students and postdocs will be joining a team of two biology (Charlotte Lindqvist and Corey Krabbenhoft) and two Earth Science (Jason Briner and Elizabeth Thomas) professors at the University at Buffalo, New York, with cross-disciplinary expertise in evolutionary biology, paleogenomics, ecology, geology, and paleoclimatology.

The abstract of the award ("URoL:EN: Integrating paleogenomics, ecology, and geology to predict organism-environment coupled evolution during rapid warming and ice sheet retreat") can be found here: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2221988 . See also here for attention our award has gained: https://www.buffalo.edu/ubnow/stories/2022/09/climate-change-alaska.html and https://www.schumer.senate.gov/newsroom/press-releases/schumer-gillibrand-announce-nearly-3-million-in-national-science-foundation-funding-for-the-university-at-buffalo-to-study-the-impacts-of-climate-change
Position Descriptions: The two postdoctoral associates will work in one of two areas: (1) sedimentary ancient DNA (sedaDNA) or (2) geochemical and stable isotope proxies in lake sediments and paleoclimate reconstruction, and both will be involved with age-depth modeling from lake sediment cores collected in Southeast Alaska. Experience with pollen analysis is a plus. The postdocs will also take part in coordination and mentoring students, research and outreach activities, and course planning. The three PhD students will conduct research in aspects of either (1) sedimentary ancient DNA, (2) paleoclimate reconstruction using lipid biomarkers and compound-specific stable isotopes or (3) cosmogenic nuclide exposure dating and reconstruction of sea level history, respectively. PhD students will be trained as a cohort, and all participants will be involved with extensive lab work, field work, and outreach in Southeast Alaska and cross-disciplinary project activities through project team meetings, journal seminars, and workshops.

Qualifications: For the postdoc positions, required qualifications are a Ph.D. in either evolutionary biology, Earth science, or closely related fields, depending on which of the two positions is being applied for. Candidates must have excellent English writing and verbal communication skills, as well as an established record of productivity (i.e., producing peer-reviewed publications) in areas relevant to the specific research. We are particularly looking for applicants with a relevant research background in one of the two fields: sedimentary ancient DNA/paleogenomics or geochemistry, and with an interest in working in an interdisciplinary and collaborative research environment. Proficiency in or a desire and willingness to learn scientific programming, bioinformatics, and/or statistics is required. Students interested in applying for any of the PhD positions must hold a Bachelor and/or Master's degree in either biological or Earth sciences prior to the start date in Fall 2023.

How to Apply: Postdocs: Interested applicants should send a CV and a cover letter, including contact information for 2-3 references, to the email addresses below. We encourage applications from underrepresented groups and women. Review of applications will begin immediately and remain open until December 1st, 2022, applications will be accepted until the positions have been filled. The Biology Postdoctoral Fellow is anticipated to start in February, 2023 and the Earth Science Postdoctoral Fellow will start summer or fall 2023. Both positions will continue for 2 years, contingent on satisfactory progress in year 1.

PhD students: Applications for admission to our respective graduate schools for Fall 2023 are due Jan 4th 2022 to biology and 15 December 2022 to Earth Science for full priority consideration. However, applicants are strongly encouraged to reach out to the relevant PI at the below address/es to discuss

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UCalifornia Berkeley MosquitoPopulationBiology

POSTDOC POSITION IN MOSQUITO POPULATION BIOLOGY

The Marshall Lab at the UC Berkeley School of Public Health is seeking to hire a postdoctoral scholar to work on an exciting project to quantify mosquito movement patterns, life history and population size based on kinship data. The position is initially for one year, with the possibility of extension. Start date is flexible. Salary is commensurate with experience, and full benefits are included.

The position is funded by an NIH grant to develop close-kin mark-recapture (CKMR) methods to estimate movement and demographic parameters of Aedes aegypti, a major vector of dengue, Zika and chikungunya viruses throughout much of the world. Alongside this, we are exploring the suitability of CKMR methods for Anopheles malaria vectors in sub-Saharan Africa. To learn more about the project, please see our pre-print here: https://doi.org/10.1101/2022.02.19.481126 The successful candidate will work with our network of collaborators at the Mosquito Genomics Unit, QIMR Berghofer Medical Research Institute (Australia), the Environmental Health Institute, National Environment Agency (Singapore), and the Ifakara Health Institute (Tanzania). There will also be opportunities to contribute to our other collaborative projects with a consortium of mathematical modelers, molecular biologists, ecologists and epidemiologists, mostly throughout the University of California system.

An ideal candidate will have: * A strong background in applied mathematics, statistics and/or computer science * Experience with population genetics, genomics or ecological/epidemiological modeling * An interest in mosquitoes and/or mosquito-borne diseases * An interest in mentoring students and promoting diversity, equity and inclusion in research

If you are interested in the position, please send: i) your CV, including a list of publications, ii) PDFs of your two most significant publications/manuscripts to date, iii) the names and email addresses of three potential referees, and iv) a cover letter describing your research interests and motivations for joining our lab to John Marshall at john.marshall@berkeley.edu. Inquiries are also welcome.

Additional information about the research in our lab can be found at https://www.marshalllab.com/. The position will remain open until filled.

UC Berkeley has large and vibrant public health, ecology and computational biology communities spanning the School of Public Health, the Department of Integrative Biology, the Department of Environmental Science, Policy and Management, the Center for Computational Biology, the Innovative Genomics Institute, and more. UC Berkeley offers competitive salaries, excellent benefits and is an equal opportunity employer. The City of Berkeley and the surrounding San Francisco Bay Area is known for its progressive values, vibrant social and cultural scene, and beautiful surrounding environment.

"Marshall, John M." <john.marshall@berkeley.edu>

John Marshall <john.marshall@berkeley.edu>

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UCalifornia Berkeley PlantBiodiversity

The Ackerly Lab in the Department of Integrative Biology at the University of California, Berkeley seeks applications for a Postdoctoral Scholar to develop innovative analyses of the potential impacts of climate change on plant biodiversity, with a focus on the flora of California or the western US, and the implications for conservation and protected area management. For full information and to apply:https://aprecruit.berkeley.edu/JPF03676 David Ackerly Dean,Rausser College of Natural Resources 101 Giannini Hall # 3100

University of California Berkeley, CA 94720-3100

V+1 (510) 642-7171 Edackerly@berkeley.edu Wnature.berkeley.edu

David Dickinson Ackerly <dackerly@berkeley.edu>

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UCalifornia Davis PopulationBiology

DEADLINE: November 1, 2021 POSTDOCTORAL FELLOW IN POPULATION BIOLOGY

The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their Ph.D.

The position is for TWO YEARS, subject to review after one year, and can begin as early as July 1, 2023. This position is covered by a collective bargaining unit. It has a starting annual salary of $55,632 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Graham Coop, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis programs in population biology, see https://cpb.ucdavis.edu/cpb-postdoc-fellowship. Workshop proposals can focus on broad research techniques or topics, career development, or diversity equity and inclusion activities.

ONLINE APPLICATION: Interested candidates should submit a cover letter, a CV, a short description of research accomplishments (1-2 pages), a short description of proposed research including potential faculty mentors (1-2 pages; references may be in addition to the page limit), a brief description of their proposed workshop (1 page or less), copies of two manuscripts (published, preprints, or drafts), and a statement of contributions to diversity, equity, and inclusion. All documents should be submitted in PDF format at: https://recruit.ucdavis.edu/JPF05276 . Applicants should also provide the information requested for three referees. Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. Therefore, we ask the applicant to please advise the reference writers to comment on the candidate's past roles as a mentor and/or a community member. Refer to the on-line instructions for further information.

For full consideration, applications (including letters of reference) must be received by November 1, 2022. E-mail questions to smmann@ucdavis.edu.

The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for diversity.

Graham Coop Professor, Department of Evolution and Ecology Director of the Center for Population Biology. University of California, Davis gcbias.org < http://www.eve.ucdavis.edu/gmcoop/ > Storer Hall, One Shields Ave., Davis, CA 95616 Ph: 530-752-1622 Fax: 530-752-1449

gmcoop@ucdavis.edu

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UCalifornia LosAngeles OakAdaptiveGenomics

Great post-doctoral scholar position is available for a bold, creative, and motivated individual interested in evolutionary/conservation genomics and epigenomics of plants. The postdoctoral fellow will work on an exciting, state-of-the-art project to identify epigenetic and genetic variants associated with positive response to climate warming using valley oak as the study system. Building on excellent genomic resources that include a high-quality, well-annotated reference genome, multiple whole sequence methylomes, and transcriptomes along with phenotypic data from a long-term provenance study of valley oak, the post-doc will conduct analyses on existing data sets and develop focal experiments to assess the effect of DNA methylation on climate associated

phenotypes. The candidate will contribute to a long-term research program to study the evolution of local adaptation in tree populations and develop strategies for genome-enhanced tree management of tree populations facing climate warming.

The applicant should possess a PhD or equivalent in the biological sciences. Ideally, the successful candidate will have previous experience in molecular techniques, DNA/RNA sequence analysis, and variant calling, as well as an understanding of DNA methylation, transposons, and gene expression. Ideally, candidates should have knowledge of GWAS, quantitative genetic analysis of phenotypes, and biostatistical programming in R, as well as a publication record.

This position is available January 2023, with an initial one-year appointment and possibility of 2nd year based on performance. Applicants should submit the following: Cover letter; Curriculum Vita; Statement of research interests; EDI statement summarizing your efforts and commitment to promoting equity, diversity, and inclusion; and pdfs of 3 publications. Cover letter should include: (1) short personal statement describing your motivation and experience relevant to this project; (2) contact information for three referees; (3) specific computational or statistical skills relevant to position, such as programming or scripting languages, knowledge of Linux/Unix computing environment, and familiarity with bioinformatic tools, and/or experience with genetic or epigenetic analyses, such as GWAS, EWAS, landscape genomics, or climate modeling.

Please direct nominations or questions to Prof. Victoria Sork at vlsork@ucla.edu. Applications should be submitted through UC Recruit: https://recruit.apo.ucla.edu/-JPF07730. Review of applications will begin upon receipt and continue until filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination and Affirmative Action Policy (http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct)

"Sork, Victoria" <vlsork@ucla.edu>

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UCalifornia Merced SymbiosesEvolution

Postdoctoral and Doctoral positions in beneficial symbioses

We are in an era of rapidly changing climate, threatening animal species that form complex relationships with microbes for essential benefits. To understand how these interactions will respond to certain climate futures from molecular to ecological scales, we have established the NSF Biological Integration Institute, INSITE The INstitute for Symbiotic Interactions, Teaching, and Education in the Face of a Changing Climate. INSITE brings together a multidisciplinary team at the University of California Merced and Michigan State University. The INSITE research team is seeking to recruit passionate junior scientists with wide-ranging interests in biology and applied math. INSITE's research aims integrate studies of marine and terrestrial symbioses across the fields of ecology, evolution, physiology, bioinformatics, applied mathematics, and conservation biology to establish a foundational a set of expectations and a roadmap for the integrative understanding of symbioses under climate crises. Our integrated research approach established a training platform intended to break down interdisciplinary barriers to promote effective and seamless integration of multiple STEM disciplines. INSITE's trainees will broaden the field of symbiosis to new biological systems and scientific frontiers, making INSITE fellows more competitive for various careers.As a community, INSITE aims to foster equity and diversity in STEM, where everyone's input is equally respected by creating an atmosphere designed to recruit and retain people from diverse backgrounds in science. Postdoctoral scholars interested can apply here:https://aprecruit.ucmerced.edu/JPF01411 Graduate students are accepted through the UC Merced Quantitative Systems Biology program (https://-/qsb.ucmerced.edu/join-us/we-want-you) or throughthe UC Merced Applied Mathematics program (https://-/appliedmath.ucmerced.edu/apply/graduate). Also for more information, see our website (https://biiinsite.org/).

The University of California is an Equal Employment Opportunity/Affirmative Action employer and invites applications from all qualified applicants, including women, minorities, veterans, and individual with dis-

abilities, who will enrich the teaching, research and public service missions of the university. All qualified applicants willbe considered for employment without regard to race, color, religion, sex,sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy, see: UC Nondiscrimination & Affirmative Action Policy (https://policy.ucop.edu/doc/4000376/-DiscHarassAffirmAction).

The University of California, Merced, is the newest of the University of California system's 10 campuses. With over 9,000 undergraduate and graduate students (https://www.ucmerced.edu/fast-facts), UC Merced provides outstanding educational opportunities to highly qualified students from the heart of California, the nation, and abroad. The campus has special connections to nearby Yosemite National Park; is on the cutting edge of sustainability in construction and design; and supports the economic development of Central California. The Merced 2020 Project doubled the physical capacity of the campus, and enhanced academic distinction, student success, and research excellence (https://-merced2020.ucmerced.edu/).

UC Merced is a smoke & tobacco free campus (https:/-/smokefree.ucmerced.edu/).

MICHELE K NISHIGUCHI Professor (she/her/hers)
MOLECULAR AND CELL BIOLOGY

DIRECTOR, INSITE- INSTITUTE FORSYMBIOTIC INTERACTIONS, TRAINING AND EDUCATION MPI-URISE AT UCMERCED

5200 Lake Road|Merced, California 95343 http://-nishsymbiosislab.com|209.228.4400 nish@ucmerced.edu

Michele Nishiguchi <nish@ucmerced.edu>

UC Dublin
FishDiseaseGenomeSequencing

3-year PostDoc in Genome Sequencing of fish diseases at University College Dublin and the Atlantic Technical University

https://universityvacancies.com/university-college-dublin/ucd-post-doctoral-research-fellow-level-1-220

Applications are invited for a Temporary 3 year post of a UCD Post-Doctoral Research Fellow Level 1 within UCD Biology and Environmental Science. Atlantic salmon is affected by aemoebic gill disease AGD that causes significant losses to the aquaculture industry. The overall aim of the proposed work is to increase understanding of gill disease in salmon and provide targeted therapies for treatment. The amoeba, Neoparameoba perurans, and the associated eukaryote symbiont, Perkinsela sp., cause AGD and is associated with significant mortality in, primarily, the Atlantic salmon farming industry, but also cause disease in other farmed fish species. The Post-Doctoral Research Fellow will undertake de-novo whole genome sequencing of both the amoeba and the symbiont as well as establishing the microbiom of the amoeba. Further, different strains of the amoeba will be resequenced to detect genetic variance among strains. Finally, a strain specific environmental DNA assay will be developed to assist in early detection of the disease. The Post-Doctoral Research Fellow will also work with other aspects and partners within the Science Foundation Ireland funded GIDAS project that is a collaboration between The Atlantic Technical University and University College Dublin. The successful candidate will be expected to be based in Dublin but will also spend time at The Atlantic Technical University in Galway. This is a research focused role, where you will conduct a specified programme of research supported by research training and development under the supervision and direction of a Principal Investigator. The primary purpose of the role is to further develop your research skills and competences, including the processes of publication in peer-reviewed academic publications, the development of funding proposals, the mentorship of graduate students along with the opportunity to develop your skills in research led teaching. Fixed Salary euro 39,522 per annumAppointment on the above range will be dependent upon qualifications and experience. Closing date: 17:00hrs (local Irish time) on 7th November 2022. Applications must be submitted by the closing date and time specified. Any applications which are still in progress at the closing time of 17:00hrs (Local Irish Time) on the specified closing date will be cancelled automatically by the system. UCD are unable to accept late applications.

Prior to application, further information (including application procedure) should be obtained from the Work at UCD website: https://www.ucd.ie/workatucd/jobs/
Jens Carlsson <jens.carlsson@ucd.ie>

UClaudeBernard Lyon RedDeerGenomics

We offer a 2-years post-doctorate position (expected starting time on 2023 February 1st) to quantify and understand the relative effects of the environment and sport hunting on the dynamics, genetics and genomics of red deer populations. The red deer is of particular interest in Europe and France, both from a sociological and a hunting point of view. The main objective of the post-doc fellow is to analyse and publish scientific papers from historical demographic data on the long-term (~ 30 years) monitoring of individual red deer at La Petite Pierre (Bas-Rhin, France) and Chambord (Loir-et-Cher, France). Another component of the post-doc work relates to the genetics of these populations for which we need to estimate the genetic population parameters (genetic diversity, effective population size, genes under selection, genomic basis of individual heterogeneityÂÂ') using both classical molecular genetic and genomic approaches. We finally aim at linking the genetic characteristics of the red deer populations living in contrasting environments (closed vs open populations) or hunting policies (trophy hunting vs. population control) with the observed population dynamics (demo-genetics).

The post-doctorate fellow will contribute, with LBBE teams, to the framing of the scientific questions from which wildlife managers and the French Office for Biodiversity will derive management policies and advices for a better control of red deer populations. Although most demographic data are readily available, please consider that some time is needed to understand the structure and limitations of the data sets. Abundance, hunting bags, body mass, reproduction and survival data will serve to describe the long-run population dynamics of the 2 red deer populations. Density-dependence, responses to weather and its interaction with hunting will be investigated into details. An important goal of this work will be the generalisation of the results / model to other red deer populations for which we only have partial demographic data. Ultimately, we should provide wildlife managers with clear and applicable management policies for such a sexually dimorphic species. We envision an integrated approach (joined analyses of different data type) for statistical analyses given the heterogeneity of the data we have at hand. We expect the post-doctorate fellow to have a strong will and motivation to dig into genetic genomics concepts and tools to complete the second part of the project. Beside the description of standard genetic measures (genetic diversity, effective population sizeÂÂ'), we will identify genes under selection in different ecological contexts in order to uncover the genomic bases of individual heterogeneity in life history traits (e.g. reproduction, survivalÂÂ') and to infer the evolutionary history of the studied populations. The candidate will receive help and support from the bioinformatic and biotechnology teams of the LBBE, in addition to a master student in spring 2024. The ultimate goal of the project is to build a conceptual model to describe and understand the interaction between genetics and population dynamics (demo-genetic modelling).

This project is implemented in two study territories of the French Office of Biodiversity (OFB) with long-term deer monitoring offering contrasting quasi-experimental conditions: - La Petite Pierre: mid-mountain forest environment, open territory, - Chambord: lowland forest environment, closed territory. These two territories offer an exceptional history of deer population monitoring: - La Petite Pierre: hunting and biometric and demographic data by CMR since 1975, counting data since 1978, genetic data (tissue samples) since 2006, - Chambord: hunting and biometric data, since 1980, count data since 1985, and demographic data by CMR and genetic data (tissue samples) since 2014.

Work context The host lab is the Biometry and Evolutionary Biology Lab (LBBE, UMR CNRS 5558: https://lbbe.univ-lyon1.fr/) from the University of Lyon 1, CNRS and VetAgroSup, located in the outskirt of Lyon, France. Almost 200 people contribute to the research at the LBBE that brings together mathematical modelling and IT to answers questions in ecological, evolutionary and health (humans, animals) sciences. The LBBE is among the most important ecology lab in France, with a long history of scientific collaborations with partners in charge of studies and research on wildlife such as the French Office for Biodiversity and with wildlife managers (national park services, Game and Wildlife services).

The post-doc will work in close collaboration with Maryline PELLERIN (French Office for Biodiversity, Conservation and sustainable management of exploited species department), Christophe BONENFANT (Evolutionary demography Team at the LBBE), Sébastien DEVILLARD (Ecology and Evolution

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UColorado Museum DiatomSymbiosisEvolution

The University of Colorado Museum of Natural History invites applications for a 30- month Postdoctoral Associate appointment. This appointment is funded by the National Science Foundation and will focus on the evolution of the symbiotic relationship between members of the diatom (Bacillariophyta) order Rhopalodiales and Cyanobacteria. We seek an individual with expertise and interest in the generation, assembly, annotation, and analysis of organellar and nuclear genomes, the evolution of symbiosis, and the congruence (or incongruence) of molecular and morphological data. We seek someone who is an excellent writer, has great communication skills, and is interested in collaborating with an international team of faculty and students. The candidate should also show a strong interest in teaching and mentoring students.

The postdoctoral associate will be expected to take on the following responsibilities:

- Generating, assembling, annotating, analyzing, and managing genomics data, especially based on mitochondrial, chloroplast and individual nuclear genes sequences. - Analysis and construction of phylogenetic trees using nextgen and Sanger sequencing data. - Generating manuscripts. - Oversight of the lab. - Student Mentoring. - Teaching in Workshops. - Project management.

Applicants should meet the following qualifications:

- PhD in Biology, Evolution, Molecular Biology or similar areas. - Expertise in generating, assembling, annotating, analyzing, and managing genomics data, especially based on mitochondrial, chloroplast and individual nuclear genes sequences. - Experience in the analysis and construction of phylogenetic trees using nextgen and Sanger sequencing data. - Proficient in R, Python, and other related bioinformatics tools.

The University of Colorado Museum of Natural History is a world- class natural history institution, nestled against the foothills of the Rocky Mountains on the campus of Colorado's flagship university in Boulder, Colorado. Currently, more than five million objects are part of the museum. A public museum, research labs and a comprehensive collection and library of diatoms will allow this Postdoctoral Associate to excel in research and outreach, mentor graduate and undergraduate students, and assist in teaching NSF- funded workshops. The team on this project includes faculty / curators in the Museum at CU- Boulder (with joint appointments with the Department of Ecology and Evolutionary Biology) as well as faculty at the University of Montana and Grand Valley State University. International collaborators include universities and research institutes in China, India, Indonesia and Argentina.

Detailed information about this position and application instructions can be found here:

https://jobs.colorado.edu/jobs/JobDetail/?jobId=-43036 For any inquiries, please contact Dr. Kociolek: patrick.kociolek@colorado.edu

Jingchun Li Assistant Professor & Curator of Invertebrates CU Natural History Museum Dept. of Ecology & Evolutionary Biology University of Colorado Boulder, CO 80309

Office: MCOL E272; Lab: MCOL E266 Office Phone: 1- 303- 492- 6058 jingchun.li@colorado.edu http://-jingchunli.weebly.com/

UFlorence Bioinformatics

Postdoc:

Postdoctoral /research assistant position: New methodologies to assess and monitor endangered species/communities, as a consequence of climate change and anthropogenic perturbations.

A Senior Post-Doc position is available in Stefano Cannicci's lab at the Department of Biology, University of Florence, Italy, within the frame of the recently funded Italian Project - National Biodiversity Future Center - NBFC - https://www.nbfc.it/ . In particular, the candidate will work with eDNA metabarcoding, transcriptomic and physiological data. Programming experience in R and/or Python is highly desirable.

The Post-doc will work for suggesting and planning protection and conservation interventions through multilevel data-driven modelling approach to predict and simulate biodiversity dynamics from environmental parameters. By field and laboratory approaches, using physiological and ecological analyses, the candidate will be able to disentangle those processes that occur spontaneously as part of the natural evolution of species and ecological communities from processes accelerated by ex-

ternal disturbances, such as the anthropogenic impact, to estimate the potential for adaptation of Mediterranean terrestrial and freshwater organisms. The deadline of the call is 25 November, and the online submission system is here:

https://stlabtest.dinfo.unifi.it/beta/akademia-candidature. Complete information on the call can be found here: https://titulus.unifi.it/albo/-viewer?view=files%2F004758739-UNFICLE-6bc5ee7a-435f-46df-80a5-d9c82802cc0a-000.pdf ; and here https:/-/www.unifi.it/index.php?module=MDAssRic&func=-list&selezione=DIP058502&target=a For any additional information, feel free to contact Stefano Cannicci:

stefano.cannicci@unifi.it

Stefano Cannicci, PhD Vice President for Postgraduate Studies University of Florence Piazza San Marco 4 50121, Firenze Italy Mobile: +39 331 2310498 Phone (Uni Office): +39 055 2756515 Email stefano.cannicci@unifi.it

Full Professor of Zoology Department of Biology, University of Florence via Madonna del Piano 6, 50019, Sesto Fiorentino Phone (Dept. office): +39 0554574720

Stefano Cannicci <stefano.cannicci@unifi.it>

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UFlorence CommunityBioinformatics

Postdoc:

Postdoctoral /research assistant position: Bioinformatic and statistical analysis of physiological and molecular data to study the composition and structure of communities and their response to environmental pressures A postdoctoral/research assistant position is available in Sara Fratini's lab at the Department of Biology, University of Florence, Italy, within the frame of the recently funded Italian Project - National Biodiversity Future Center - NBFC - https://www.nbfc.it/. In particular, the candidate will work with eDNA metabarcoding, transcriptomic and physiological data. Programming experience in R and/or Python is highly desirable. Monitoring ecosystems, assessing taxonomic/community changes and turnover in the presence of anthropogenic impacts and climate change, and studying the efficiency of protected areas are crucial goals to address the global biodiversity crisis, in line with the EU Biodiversity Strategy 2030. In this context, the integrated use of physiological and molecular techniques are accurate methods to study the composition and structure of ecosystems and how biodiversity responds to different environmental pressures. The data provided by these integrated techniques require deep statistical and bioinformatics knowledge, which is necessary for analyzing data from transcriptomics and eDNA metabacording studies, reconstructing ecological networks, and modelling the effect of ecological changes in a climate change scenario. The deadline of the call is 25 November, and the online submission system is here:

https://stlabtest.dinfo.unifi.it/beta/akademia-candidature. Complete information on the call can be found here:

https://titulus.unifi.it/albo/viewer?view=-files%2F004757112-UNFICLE-17a33b1c-43e5-4351-84e0-3bf6a3498c50-000.pdf; and here

https://www.unifi.it/index.php?module=-MDAssRic&func=list&selezione=&target=a For any additional information, feel free to contact Sara Fratini: sara.fratini@unifi.it

Sara Fratini, PhD Assistant Professor in Zoology (tenure track) Department of Biology University of Florence Via Madonna del Piano 6, I-50019 Sesto Fiorentino, Italy email: sara.fratini@unifi.it Tel. +390554574715

Sara Fratini <sara.fratini@unifi.it>

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UFreiburg TreeEpigenetics

The Department of Biology, research group on "Plant Ecology and Geobotany", Prof. Dr. Lars Opgenoorth is currently accepting applications for a

Postoctoral researcher (w/m/d)

* Application deadline: 30.10.2022 * Start-date: At the earliest possible date. * Fulltime position

You can find the full application here: https:/-/stellenangebote.uni-marburg.de/jobposting/-6690b12ebfaa7529a1e09a040eb22f3693d0d3af0 The position is offered for a period of 2 years. The starting date is as soon as possible. The position is full time with salary and benefits commensurate with a public

service position in the state Hesse, Germany (TV-H E 13, 100 %). An extension by one year in the Forest Genetics working group of Prof. Dr. Katrin Heer at the Albert-Ludwigs-Universität Freiburg is planned.

Tasks The position is embedded in the BMBF funded project "EpiSoma - Sources and consequences of somatic epigenetic diversity in trees". The successful applicant will investigate whether microclimatic differences within beech (Fagus sylvatica) crowns create characteristic patterns of methylation differences and whether these differences are faithfully inherited to offspring. For this purpose, the postdoc will analyze whole genome bisulfite sequencing data, install sensors in tree crowns, carry out cross-pollination between sun and shade-exposed branches and conduct stress experiments with the resulting seedlings. The field and experimental work will be carried out at the Philipps Universität Marburg and the Marburg Open Forest in the working group of Prof. Dr. Lars Opgenoorth. For data analyses, the postdoctoral researcher will obtain another contract of one-year duration at the Albert-Ludwigs-Universität Freiburg in the Forest Genetics working group of Prof. Dr. Katrin Heer. The whole project will be carried out in close collaboration of these two working groups, and with Prof. Dr. Frank Johannes and Prof. Dr. Hans Pretzsch (TUM).

The position will be filled by a temporary contract that is limited to the period which is necessary to gain further scientific expertise (such as the preparation for a subsequent qualification period). Within the entrusted tasks the opportunity for independent scientific work to obtain further personal qualification is given. The limitation of the contract complies to ç 2 Abs. 1 WissZeitVG.

Profile You have an MSc and Ph.D. in biology, plant ecology, bioinformatics, or similar fields with excellent results. You enjoy science and are driven by curiosity. You have field work experience including tree climbing or bring the willingness and physical capability to learn tree climbing. Research experience in forest ecology, tree physiology, genetics or genomics and explicitly, with the bioinformatic analysis of WGBS is advantageous. We expect very good knowledge in data handling and statistical data analysis (in R and Unix environment) as well as a very good publications record. Experience with laboratory work (DNA extraction and library preparation) is advantageous. You have good communication and team skills, and a meticulous way of working.

Contact for further information Prof. Dr. Lars Opgenoorth +49 6421-28 22080

We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. As a certified family-friendly university, we support our employees in balancing family and career. Sharing a full-time position (ç 8 Abs. 2 S. 1 HGlG) as well as a reduction of working time is possible. Applicants with a disability as discribed in SGB IX (ç 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs cannot be refunded.

Please send your application mentioning registration number as a single PDF file to opgenoorth.uni-marburg.de until 30.10.2022. Your application will consist of a motivation letter, a CV, academic transcripts (non-official copies are acceptable) and contact details of at least two academic references.

Prof. Dr. Katrin Heer Forest Genetics

Albert-Ludwigs-Universität Freiburg Faculty of Environment and Natural Resources Bertoldstraße 17, 79098 Freiburg i. Br., Germany

Phone: +49 761 203 3647 www.forestgenetics.uni-freiburg.de Katrin Heer <katrin.heer@forgen.uni-freiburg.de>

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UGiessen ShellProteomics

Dear all,

there is a PostDoc position available for 12 months in the lab of Prof. Dr. Christian Albrecht at the Justus Liebig University Giessen in Germany.

Job advert (in German only): https://www.uni-giessen.de/karriere/stellenangebote/ausschreibungen/-wissenschaftliche-mitarbeiter/644-08 If you are interested (or know a candidate who might be interested) in Lake Tanganyika's fascinating molluscs and the application of soft-tissue as well as shell proteomics on both recent and subfossil specimens, then you can apply here using the university's online form (https://www.uni-giessen.de/karriere/stellenangebote/bewerbung) with the reference code 644/08 until 22 November 2022. Alternatively, you send an Email directly to Christian Albrecht for your application and further details: christian.albrecht@allzool.bio.uni-giessen.de

Your tasks: - Data generation and analysis using existing sample material as part of a DFG-funded research project on the biodiversity and evolution of molluscs in Lake Tanganyika - Establishment of a new integrated

analytical approach using proteomic fingerprinting, shell paleoproteomics, DNA barcoding and biodiversity modeling

Your qualifications and skills: - Completed university degree in science and a relevant completed PhD in biology or chemistry - Knowledge of Matrix-Assisted Laser Desorption/Ionization Time-Of- Flight Mass Spectrometry (MALDI-TOF MS) - Good statistical skills, experience in the use of R or Phyton - Interest in evolutionary biology is advantageous

Our offer to you: - Work in an international and dynamic team - A diversified job with flexible working hours - Free use of public transport (LandesTicket Hessen) - More than 100 seminars, workshops, and e-learning opportunities per year for personal development, as well as a wide range of health and sports programs - Remuneration according to TV-H 13 (c. 2,500 Euros per month), company pension plan, child allowance and special payments

Best wishes

Bjï¿½rn Stelbrink, on behalf of Christian Albrecht

"Stelbrink, Bjï¿½rn" <Bjoern.Stelbrink@mfn.berlin>

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UGoettingen PlantBreedingMethodology

The Division of Plant Breeding Methodology at the University of Gï¿½ttingen has an opening for a postdoc. Applicants should be comfortable with quantitative and population genetic techniques such as genomic prediction and selection mapping. Applicants should have a strong background in statistics, mathematics, or computer programming. Experience working with plant or animal breeding populations is required. Experience with maize is a plus.

The research will involve managing our experimental evolution populations and developing analysis pipelines to use them for a collection quantitative and evolutionary genetic analyses. More information: https://-www.uni-goettingen.de/de/644546.html?details=1295 Please direct questions to Prof. Tim Beissinger: beissinger@gwdg.de

Prof. Tim Beissinger Chair of Plant Breeding Methodology, Department of Crop Science Managing Director, Center for Integrated Breeding Research University of Gï¿½ttingen Carl-Sprengel-Weg 1, 37075 Gï¿½ttingen Office phone:+49 551 39 24369; Home office: +49 1516 5268591 Email: beissinger@gwdg.de Web: www.uni-goettingen.de/plantbreeding "Beissinger, Timothy Mathes" <beissinger@gwdg.de>

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UHongKong EvolConservationGenomics

Postdoc: University of Hong Kong

Applications are invited for appointment as Postdoctoral Fellow in Evolutionary and Conservation Genomics in the School of Biological Sciences (Ref.: 516729), to commence in January 2023 or as soon as possible thereafter for two years.

Applicants should possess a Ph.D. degree in evolutionary biology, population genetics, bioinformatics, conservation genetics or a related discipline, with a demonstrated record of research achievement. Those who are expected to complete a Ph.D. degree before the commencement date will also be considered. They should have experience in scripting in at least one language (preferably R or Python). Experience in shell scripting and working with computer clusters, working with whole genome or RAD-seq data, landscape/seascape genomics and inferring demographic history from genetic data would be highly advantageous. Fieldwork experience in marine ecosystems would also be beneficial.

The appointee will participate in projects on evolutionary and conservation genomics of flatfish, elasmobranchs and marine mammals. They will work on the development of predictive models of genetic diversity and differentiation using a combination of demographic modelling and seascape genetics, aimed at delineating conservation units including unsampled populations. They will also join other ongoing projects and have the possibility to contribute to studies on speciation, local adaptation, parallel evolution and conservation genetics of fishes and marine mammals. Several datasets are already at hand to ensure a rapid start of the work.

The appointee will have opportunities to interact with collaborators and be involved in different evolutionary and ecological genetics projects, and participate in field work.

Enquiries about the duties of the post should be sent to Dr. Paolo Momigliano at momi@hku.hk.

A highly competitive salary commensurate with qualifications and experience will be offered, in addition to annual leave and medical benefits. The University only accepts online application for the above post. Applicants should apply online (https://jobs.hku.hk/en/job/-516729/postdoctoral-fellow) and upload an up-to-date C.V. with the contact information of three referees, cover letter and a statement of research interests and skills. Referees will be contacted only for shortlisted applicants. Review of applications will commence as soon as possible and continue until December 31, 2022, or until the post is filled, whichever is earlier.

momi@hku.hk

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UMainz TheoreticalEvolutionaryEcology

Postdoctoral position: theoretician, life-history theory

The research group of Prof. Hanna Kokko is moving to the Johannes Gutenberg University (JGU) in Mainz, Germany, beginning in January 2023, when she starts her new position as an Alexander von Humboldt Professor. The research team is now seeking strengths in life-history theory, with an emphasis on the evolution of ageing, but with possibilities of explorations of other, related themes (see www.kokkonuts.org).

The postdoctoral position is initially offered for 3 years, ideally starting within the first 6 months of 2023 (with considerable flexibility). You will join a research group that will offer collaboration prospects within the group, with other researchers at JGU, as well as elsewhere via Prof. Kokko's international collaboration network. The A.v.Humboldt professorship awarded to Prof. Kokko also creates the possibility for a 'theory hub' with a visitor program: short- and long-term visitors, from workshops to sabbatical-length visits, bring in excellent prospects for collaboration and idea exchange between the postdoc and other theoreticians/empiricists.

While primarily a research position, there is a 4 h/week teaching expectation during semester times, with content that will be developed together with Prof. Kokko and her other group members. The working language of the group is English, and teaching can be arranged flexibly in either English or German.

WE EXPECT: * A PhD degree in a suitable field (biology, physics, mathematics, computer sciences) * Skills in theoretical evolutionary ecology * An interest in collaborative working in a 'theory hub' with full-time junior researchers as well as short-term visitors * Proven capability of producing publishable research * An interest in developing one's teaching skills

WE OFFER: * A chance to structure a new hub in theoretical evolutionary ecology * Interesting contacts to cutting-edge research in the evolution of ageing and beyond * A renumeration package that follows the German EG13 scale (range marked as 13 on https://www.lff-rlp.de/fileadmin/user_upload/LFF/PDF/service/-gehaltstabellen/TV-L/TV_Laender_ab_01012021.pdf) * Flexible working hours * Internal and external training opportunities

The position complies with the German ç57 High Education Act (Hochschulgesetz).

TO APPLY, PLEASE SEND * CV + publication list * a 1-page motivation letter * some comments on 1 paper, chosen either from the journal club list of www.kokkonuts.org (section 'journal club'), or from Prof. Kokko's Google scholar profile.

This part of the application should list the comments that the applicant would plan to give in a journal club if this paper was discussed there. The length of this document is not prescribed: concise expression, but with enough detail so that a reader can follow the logic, is ideal.

The above should form a single pdf and be sent to Hanna Kokko (hkokko@uni-mainz.de) by 4 December 2022.

Prof. Hanna Kokko Department of Evolutionary Biology and Environmental Studies University of Zurich CH-8057 Zurich Switzerland kokkonuts.org

Hanna Kokko <hanna.kokko@ieu.uzh.ch>

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UMichigan Computational AI Evolution

Postdoc: Computational.AI.Evolution.UMichigan

Multiple postdoctoral fellowships are available through

the newly-established Schmidt AI in Science program at the University of Michigan. Evolutionary biology, ecology, and biodiversity science are fully within the scope of this fellowship program, which provides a generous support package and outstanding training and collaborative opportunities in the University of Michigan Community and beyond.

Application details and information about the program are available at:

https://midas.umich.edu/ai-in-science/apply/ The deadline is November 7 and the applicants must secure interest from two U-M faculty members: one as a designated Science mentor, and the other an AI mentor. The application requires a two page research statement. The 2023 competition (fellowships commencing fall 2023) will be announced in the coming weeks, so please stay tuned.

Any U-M faculty member can serve as a mentor for the program.

Multiple faculty members in the Department of Ecology and Evolutionary Biology have expressed interest in mentoring postdoctoral scholars through this program, particularly in applications of AI and machine learning to problems in biodiversity science, evolutionary biology, and ecology. A list of faculty members in the department who are potentially available for mentorship can be found at: https://lsa.umich.edu/eeb/people/-faculty.html There are also opportunities to apply AI to biodiversity data associated with the world-renowned research collections at the Museum of Zoology and U-M Herbarium. In addition, the EEB program & Museum of Zoology are home to a biodiversity imaging center (micro-computed tomography; CT) for 3D imaging of museum specimens. These and other resources available through the department can provide postdoctoral scholars with exceptionally rich data opportunities for pioneering applications of AI to problems in automated phenotyping, image segmentation, morphological evolution, phylogenetics, and other areas.

Dan Rabosky Department of Ecology and Evolutionary Biology & Museum of Zoology University of Michigan

Dan Rabosky <drabosky@umich.edu>

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UMichigan MorphologicalEvolutionHerpetology

Postdoctoral position: Sensory innovation and the ecological diversification of snakes

A postdoctoral position studying the ecological diversification of snakes using 3D morphological data is available in Alison Davis Rabosky's lab at the University of Michigan, Ann Arbor. The postdoctoral researcher will both collaborate on and develop projects involving sensory system evolution and diversification in squamate reptiles, including the evolutionary origin and stability of novel phenotypes more generally. We are especially seeking applicants with an integrative background in evolution, ecology, and herpetology, particularly those with enthusiasm for analyzing CT-based morphological data and for macroevolutionary modeling. Programming experience in R and/or Python is highly desirable, as is a love of scientific writing and public outreach. This position may also have opportunity to conduct field work, especially expeditionary sampling of reptile and amphibian communities in the Neotropics.

The position offers exciting opportunities for research, mentoring, and career development, as we have an outstanding group of colleagues in evolutionary biology and biodiversity science in the Department of Ecology and Evolutionary Biology (https://lsa.umich.edu/eeb). We welcome applicants with particular interest in our world-class herpetological collections in the UM Museum of Zoology (https://lsa.umich.edu/ummz/herps.html) and desire to interface with our public-facing Museum of Natural History (https://lsa.umich.edu/ummnh/-about.html), which provides science-based community learning opportunities for ~200,000 visitors annually.

How to Apply: Applications should be sent to ardr@umich.edu. Please include: 1. A cover letter describing your research interests and career goals, motivation for applying to this position, and relevant background 2. Your CV 3. One reprint of your favorite first-author publication or other writing sample 4. Contact information for three references.

Review of applications will begin on November 30, 2022 and will continue until the position is filled (start date is flexible). Funding is available for up to three years (https://www.nsf.gov/awardsearch/-showAward?AWD_ID=2141892), with annual review

and renewal options. Any questions about the position can be directed to Alison Davis Rabosky (ardr@umich.edu, https://lsa.umich.edu/eeb/people/-faculty/ardr.html).

More information about the Davis Rabosky lab can be found at: http://www-personal.umich.edu/˜ardr/-index.html The Davis Rabosky lab Sketchfab page with exemplar segmentations of snake sensory systems: http://sketchfab.com/michiganherpetology The University of Michigan is an equal opportunity/affirmative action employer. The College of Literature, Science, and the Arts seeks to recruit and retain a diverse workforce as a reflection of our commitments to serve the people of Michigan, fulfill the College's Guiding Principles, and sustain the excellence of LSA.

To learn more about diversity, equity, and inclusion in LSA, visit lsa.umich.edu/lsa/dei. To learn more about LSA's Strategic Vision, visit lsa.umich.edu/strategicvision.

Alison Davis Rabosky <ardr@umich.edu>

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UNevada Reno PlantGeneticManagement

The Leger and Parchman labs within the Department of Biology at the University of Nevada, Reno are recruiting a postdoctoral scientist to work collaboratively on initiating a genetic management plan for plants used in ecological restoration, rehabilitation, and reclamation, focusing on the western US. Because plant species differ in evolutionary history, distribution, degree of local adaptation, ease of seed collection or agricultural production, and restoration methods, there is no "one size fits all" approach to seed source decisions that will work for all plant species or all restoration projects. With this project, we plan to create the scaffolding needed to consider how to best collect, preserve, and deploy plants with different evolutionary histories and life history characteristics, for different uses. This project will involve collaboration with researchers in state and federal agencies such as the U.S. Forest Service Rocky Mountain Research Station (RMRS), Bureau of Land Management (BLM), Natural Resources Conservation Service (NRCS), or U.S. Geological Survey (USGS), state wildlife agencies, as well as non-governmental organizations. A candidate with a background in ecological or molecular genetics, experience in ecological restoration or native plant ecology, strong leadership, organizational, and interpersonal skills will be needed to effectively communicate information to a diverse background of people representing the restoration community.

Initial work will be to outline and describe the ideal format and content of a genetic management plan, using literature reviews and conversations with agency personnel, researchers, and seed growers. We envision developing multiple case studies using focal species and real-life restoration scenarios, and using these case studies to facilitate discussion about the types of decisions that managers might make under different circumstances. These discussions could happen at a virtual meeting, where the post-doctoral researcher would facilitate discussion among scientists, or could happen as one-on-one discussions with agency personnel and genetic researchers. We expect a peer-reviewed publication to come from this work, along with a working guide for managers; there are also opportunities to collaborate in ongoing research in the Leger and Parchman labs, as well as opportunities to develop side-projects related to ecological restoration or restoration genetics. Ultimately, our goal is to begin to create a framework to inform the genetically responsible collection, agricultural increase, and use of native seeds based on the best available science.

This is a full-time, two-year position offered at an annual salary of up to $57,000, and the selected candidate will work in a friendly and collaborative environment at the University of Nevada, Reno.

For additional information, contact Dr. Elizabeth Leger (ealeger@gmail.com) or Dr. Thomas Parchman (tparchman@unr.edu). Full details on the position can be found at: https://nshe.wd1.myworkdayjobs.com/-UNR-external/job/University-of-Nevada-Reno—Main-Campus/Postdoctoral-Scholar–Biology_R0133350-1
Thomas L. Parchman Associate Professor Department of Biology, MS 314 University of Nevada, Reno Max Fleishman Agriculture Building 1664 N. Virginia Street Reno, NV 89557-0314

Thomas L Parchman <tparchman@unr.edu>

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UOklahoma AncientDNA Genomics

Postdoctoral Research Associate

This NSF DISES funded postdoctoral fellow will conduct genomic research on beaver, mink and muskrat as part of an interdisciplinary project on the North American fur trade. The project deploys a diverse methodological toolkit including ancient DNA, stable isotope analysis, zooarchaeology, morphometrics to explore how different cultural practices shaped species and ecological outcomes and how those environmental changes shaped future decisions, practices, and social dynamics.

The goal of this position is to cross-train an individual with a traditional genomics/ bioinformatics background in ancient DNA, community engagement, and historical ecology. This postdoc will be directly supervised by Courtney Hofman at the University of Oklahoma, and with additional mentoring by Alexis Mychajliw (Middlebury College) and Torben Rick (Smithsonian National Museum of Natural History), facilitating exposure to multiple research environments including archaeological field work and museum collections, while building on the postdoc's existing strengths.

Duties:

* Collaborate with PIs and project technicians on study design and data generation. * Work closely with the PIs and project stakeholders on collaborative activities with tribal communities and resource managers. * Conduct bioinformatic analyses on ancient and modern furbearer genomes. * Write manuscripts in support of the project. * Mentor undergraduate and visiting students. * Contribute to the LMAMR community through participation in LMAMR meetings and activities. * Co-write grants for additional funding and support. * Participate in science communication endeavors. * Develop strategies for integrating interdisciplinary datasets (isotopes, DNA, morphometrics, etc.) * Travel for project meetings/sample collection as needed

Required Education: PhD in Life Sciences (preferably genomics, evolutionary biology and/or conservation biology)

Skills:

* Strong background in population genetics and bioinformatics * Experience analyzing whole genome datasets * Experience with ancient DNA or degraded DNA (not required but useful)

Ideal postdoc will be interested in strengthening their skills in informatics, student mentorship, and diversity, equity and inclusion practices. Start date is flexible but ideally Jan 2023 and renewable up to 3 years dependent on annual review

Diversity Statement: The University of Oklahoma is committed to achieving a diverse, equitable, and inclusive university community by recognizing each person's unique contributions, background, and perspectives. The University of Oklahoma strives to cultivate a sense of belonging and emotional support for all, recognizing that fostering an inclusive environment for all is vital in the pursuit of academic and inclusive excellence in all aspects of our institutional mission.

Equal Employment Opportunity Statement: The University of Oklahoma, in compliance with all applicable federal and state laws and regulations, does not discriminate based on race, color, national origin, sex, sexual orientation, genetic information, gender identity, gender expression, age, religion, disability, political beliefs, or status as a veteran in any of its policies, practices, or procedures. This includes, but is not limited to, admissions, employment, financial aid, housing, services in educational programs or activities, and health care services that the University operates or provides

Complete the application here- Job Number 222683 < https://ou.taleo.net/careersection/2/-jobdetail.ftl?job=222683&tz=GMT-05:00&tzname=-America/Chicago > ***And forward CV and cover letter to Courtney Hofman, courtney.hofman@ou.edu***

Courtney Hofman, PhD President's Associates Presidential Professor Laboratories of Molecular Anthropology and Microbiome Research < https://lmamr.org/- > University of Oklahoma courtney.hofman@ou.edu she/her/hers

"Hofman, Courtney A." <courtney.hofman@ou.edu>

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UOregon MolecularEvolution ForensicGenetics

UOregon.MolecularEvolution.ForensicGenetics

Recruiting postdocs in forensic genetics and tandem repeat evolution at the University of Oregon

The Rohlfs labis looking to hire post-doc(s) on two

funded projects toquantify the accuracy of forensic genetic technologies, and tospecify the evolutionary role of tandem repeat variants. We have ideas to get started, and the postdocs will have agency to steer the projects as they progress. These positions will be based in Eugene, OR at the University of Oregon in theData Science Initiativeand theInstitute for Ecology and Evolution.

These are great opportunities for scientists who are excited about genetic variation and/or molecular evolution, and who are looking to make a social impact. While the work is very much computational biology, this is an interdisciplinary team, so you can join and get started without extensive computer programming experience and deep biological background. The scientists' primary roles will be to conduct and communicate research, and they will also be well-positioned to mentor undergraduates in the lab. The lab welcomes innovative clear communication, and examination of social justice questions related to our work.

Please email Rori rrohlfs@sfsu.edu with your CV and a cover letter describing your specific interest in this position. Don't hesitate to reach out with any questions!

Rori Rohlfs <rrohlfs@sfsu.edu>

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UOxford WildPopulationEvolution

A postdoctoral position is available to work on a NERC funded project titled "Linking climate variability and extreme events to demography and evolution in replicated wild populations" led by Prof Ben Sheldon, together with Dr Eleanor Cole and Dr Charlotte Regan, based at the Edward Grey Institute in the Department of Biology at the University of Oxford. The position is funded for 3 years from 1 Dec 2022, or as soon as possible thereafter.

The main responsibilities of the post are to conduct research using long-term data from studies of wild great and blue tit populations to understand the implications of climatic variability, and increases in climatic variability, on selection, evolutionary dynamics and demography. Much of the focus will be on the long-term population studies based in Wytham Woods near Oxford, now in their 75th year, but the project will also broaden the focus to include other populations with individual-level data studied through the SPI-Birds framework (https://spibirds.org/en). In recent years these populations have been exemplars of how populations respond to changes in mean climate, but recent analyses show that both within- and between-year variance in key climatic drivers is increasing.

The key questions to be addressed by the work include: (1) To understand how within- and between-year variance in key climatic drivers influence natural selection and demographic variation within populations. (2) To understand the implications of changes in climatic variance for fitness within and between generations. (3) To link analyses of variation in demography and selection to micro- geographic environmental variation. (4) To conduct cross-population analyses of selection and demographic dependence on climatic variance, and seek to understand between-population variation in their effects.

The post is supported by field technician and field assistant posts, and resources to enable collection of fine-scale environmental data, and based in an active research group of ~15 graduate students and postdocs.

The University of Oxford is committed to equality and valuing diversity. All applicants will be judged on merit, according to the selection criteria.

This post is full time and available from 1 Dec 2022, or as soon as possible thereafter. The closing date for applications is 12.00 noon on 9 Nov 2022, interviews are likely to be scheduled for Late November

Any queries should be addressed to Prof Ben Sheldon ben.sheldon@biology.ox.ac.uk Applications can be made at this link: https://my.corehr.com/pls/uoxrecruit/erq_jobspec_version_4.display_form?p_company=10&p_applicant_no=&p_display_in_irish=N&p_internal_external=E&p_process_type=&p_recruitment_id=161103&p_display_apply_ind=Y&p_form_profile_detail=&p_refresh_search=Y#
Prof Ben Sheldon Luc Hoffmann Professor of Field Ornithology Edward Grey Institute Department of Biology University of Oxford

Ben Sheldon <ben.sheldon@biology.ox.ac.uk>

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UppsalaU EvolutionaryBiomechanics

Postdoctoral position in evolutionary ecology

https://www.uu.se/en/about-uu/join-us/details/-?positionId=550546 A position as a postdoctoral researcher in evolutionary ecology/biomechanics is available at the Department of Ecology and Genetics, Plant Ecology and Evolution Program.

his postdoctoral position forms part of the Human Frontier Science Program project "Bridging robotics and buzz pollination: Reconstructing a bee's buzz through microrobotics" (2022-2025). It represents a collaboration between the research groups of Dr. Mario Vallejo-Marin (Uppsala University, Sweden) and Dr. Noah Jafferis (University of Massachussetts, Lowe, U.S.A.). Our project exploits new advances in micro-robotics to study a fundamental interaction between bees and flowers during buzz pollination, a phenomenon that includes thousands of plant and bee species around the world. During buzz pollination, bees from as many as 11,000 species use their indirect flight muscles to generate vibrations to shake pollen out of flowers. Buzz pollination captures one of the most striking and widespread examples of floral convergence, occurring in more than 20% of flowering plant families, including crops, such as tomatoes, which depend on vibration-producing bees.

Our project's main goal is to develop new micro-robotic approaches combined with experiments in laboratory and field settings to study the vibrations produced by diverse bee species and their effect on pollen release. We will address the central question of how diversity of bee vibrations translates to functional variation in pollen release of buzz-pollinated flowers.

The postdoctoral researcher based at Uppsala will work on measuring bee vibrations in both field and laboratory settings, growing buzz-pollinated flowers, and testing the dynamics of pollen release triggered by micro-robots developed by the U.S.A. team. Both teams will work in close collaboration with each other to develop and test the micro-robots and compare them with bee vibrations on flowers.

The multidisciplinarity of the project makes it suitable to highly motivated candidates from a variety of research backgrounds and interests, from pollination, botany, behaviour, and evolution to biomechanics and biophysics, among others. The project has opportunities to expand the research directions in conjunction with the research team.

Duties These include plant growth and care, animal (bees) maintenance and behavioural observations, fieldwork locally and overseas, laboratory work with mechanical and electronic devices, computer work (e.g., data entry, analysis, programming), manuscript preparation, supervision of students, participation in lab activities such as journal clubs, discussions, attendance to conferences, and presenting the results of the study in talks and posters.

Qualifications required To qualify for an employment as a postdoctoral researcher you must have a PhD degree or a foreign degree equivalent to a PhD degree in a relevant field (e.g., evolutionary biology, biology, botany, entomology, biomechanics). The PhD degree must have been obtained no more than three years prior to the application deadline. The three-year period can be extended due to circumstances such as sick leave, parental leave, duties in labour unions, etc. Ability to work with plants and bees, ability to travel and conduct fieldwork overseas during the summer months, and experience with statistical analyses (e.g., R) are required. We attach great importance to personal qualities such as independence, initiative, flexibility, ability to cooperate, creativity, and problem-solving analytical skills. Candidates must be able to express themselves fully in spoken as well as written English.

Qualifications desired Knowledge of programming and scripting languages (e.g., MatLab, LabView, Mathematica, Python), and expertise in one or more fields including evolutionary biology, botany, ecology, entomology, biophysics, biomechanics, and electrical engineering are highly desirable. Expertise with working with bees and plants in field and lab settings is also desirable. Experience on biomechanics or a willingness to learn are welcome.

Salary:Individual salary.

Starting date:2022-12-01, or as agreed.

Type of employment:Temporary position for 24 months, with a possibility to an extension up to a maximum of 36 months, according to central collective agreement.

Scope of employment:100%.

For further information about the position please contact:Associate Professor Mario Vallejo-Marin, mario.vallejo-marin@ebc.uu.se.

Application:The application should include 1) a letter of intent describing yourself, your research interests and motivation of why you want to work as a postdoctoral researcher in the advertised project, 2) a short description of what specific expertise or skills you can bring

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UToronto EvolutionaryQuantitativeGenetics

Postdoc Position in Evolutionary Quantitative Genetics at the University of Toronto St. George Campus

The Sztepanacz lab is recruiting a postdoc in the area of evolutionary quantitative genetics. The lab is broadly interested in the genetics of quantitative traits, using Drosophila as a model system. Ongoing projects focus on the evolution of genetic variation, sexual dimorphism, and selection on multivariate trait combinations.

The postdoctoral researcher will work on projects aimed at determining how patterns of genetic variation and pleiotropy affects the evolvability of multivariate trait combinations. They will be responsible for carrying out lab experiments with Drosophila, analyzing genetic and genomic data, and preparing manuscripts for publication.

The candidate must have a recent PhD in evolutionary biology, population/statistical/ quantitative genetics, or a related field, with evidence of published research productivity. The ideal candidate would have some combination of advanced data analysis and statistical skills, experience implementing large quantitative genetic and selection experiments in the lab, and/or working with genomic data.

Please see the full ad here: https://eeb.utoronto.ca/wp-content/uploads/2022/10/Unit-5-PDF-Job-Posting-Sztepanacz-Lab.pdf Jacqueline Sztepanacz | Assistant Professor Department of Ecology and Evolutionary Biology | University of Toronto 25 Willcocks St., Toronto, ON, M5S 3B2 email: j.sztepanacz@utoronto.ca sztepanacz.eeb.utoronto.ca

Jacqueline Sztepanacz <j.sztepanacz@utoronto.ca>

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UToronto Scarborough AvianGenomics

The Weir lab at the University of Toronto Scarborough is looking for a Post-doctoral Researcher to work on avian genomics projects. The lab has developed several genomic-based study systems and has active projects addressing speciation dynamics from a series of Canadian and Amazonian hybrid zones, biogeography and conservation genomics of kiwi (we recently sequenced 55 kiwi genomes), and the genomics of hybrid speciation to list a few. A key focus of the lab is using comparative genomic data to address broad-scale questions in biogeography, speciation, and conservation.

Qualifications: Applicants must have completed a PhD in evolution / biogeography with a strong background in bioinformatics and genomics within the preceding two years.The applicant should be well versed in coding, working with genomic data (ideally vertebrate) including familiarity with commonly used pipelines for processing and analyzing whole-genome data or reduced genome-datasets.

Salary: $45,000 (plus benefits), plus up to $3,000 for person development (conferences, workshops). Indigenous and black applicants are encouraged to apply and are eligible for an internal fellowship with a $70,000 per year award.

Duration: 2 years

Start Date:Flexible between the dates of May 1, 2023 to January 1, 2024.

How to Apply: Please send a curriculum vitae, one-page statement of research skills and interests and copies of two publications to Jason Weir (jason.weir@utoronto.ca) before November 1. Short-listed candidates will be provided with instructions on how to apply for an internal University of Toronto Scarborough Postdoctoral Fellowship. Multiple such fellowships are awarded annually across the campus. There are additional fellowships open to back or indigenous students.

Example genomic publications from the Weir Lab (PDF's available at https://www.utsc.utoronto.ca/~jweir):

Biogeography:

Bemmels, J. B., O. Haddrath, R. M. Colbourne, H. A. Robertson, J. T. Weir. 2022. Legacy of supervolcanic

eruptions on population genetic structure of brown kiwi. Current Biology.32:1-9 Weir, J. W., O. Haddrath, H. A. Robertson, R. M. Colbourne, A. J. Baker. 2016. Explosive ice age diversification in kiwi. PNAS. 113: E5580-E5587.

Conservation Genetics:

Bemmels, J. B., E. K. Mikkelsen, O. Haddrath, R. M. Colbourne, H. A. Robertson, J. T. Weir. 2021. Demographic decline and lineage-specific adaptations characterize New Zealand kiwi. Proc. R. Soc. B. 288: 20212362.

Amazonian speciation:

Barrera-Guzman, A. O., A. Aleixo, F. Maya, S. Dantas, & J. T. Weir. 2022. Gene flow, genomic homogenization and the timeline to speciation in Amazonian manakins. Mol. Ecol. 31:4050-4066.

Cronemberger, A. A., A. Alexio, E. Mikkelsen & J. T. Weir. 2020. Postzygotic isolation drives genomic speciation between highly crypticHypocnemisantbirds from Amazonia. Evolution. 74: 2512-2525

Barrera-Guzman, A. O., A. Aleixo, M. D. Shawkey, J. T. Weir. 2018. Hybrid speciation leads to novel male secondary sexual ornamentation of an Amazonian bird. PNAS. 115: E218-E225.

Jason Weir Professor Dept. of Ecology and Evolution and Dept. Biological Sciences University of Toronto 1265 Military Trail Toronto, Ontario, Canada MIC 1A4 http://www.utsc.utoronto.ca/~jweir/ (reprints)

Jason Weir <jason.weir@utoronto.ca>

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UWisconsin StevensPoint SeaLampreyGenomics

Substantial resources are expended annually throughout the Great Lakes to control invasive sea lamprey. While application of lampricides is the most common control strategy, alternative methods (i.e., supplemental controls) may increase the effectiveness of efforts to suppress sea lamprey recruitment. We seek a postdoctoral researcher to lead a project that uses genomic tools to evaluate supplemental control strategies for sea lamprey in the Great Lakes. The successful applicant will construct RAD capture (RAPTURE) genomic libraries and perform analyses to determine efficacy of sea lamprey control efforts based on pedigree analysis and measures such as effective number of breeders (Nb) and number of successfully breeding adults (Ns). Additional duties include involvement in mentoring and training undergraduate and graduate students, opportunities to write grant proposals, and to author research publications.

Position requires PhD (or equivalent) in genetics, zoology, biology, molecular biology, ecology, or other field with expertise in genetic techniques and protocols, experience in research using genetic techniques and protocols, experience with bioinformatic processing of genomic data, experience with experimental design and data analysis.

Salary: $50,000 annually to start with opportunities for annual increases.

More information, including to apply instructions are available at https://www3.uwsp.edu/hr/jobs/Pages/-AcademicJobView.aspx?UWSPJobsCode=18908 . For more information, contact:

Jared Homola Assistant Unit Leader USGS, Wisconsin Cooperative Fishery Research Unit Director, Molecular Conservation Genetics Lab jhomola@uwsp.edu

“Homola, Jared” <jhomola@uwsp.edu>

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UZurich BiomoleculeEvolvability

Postdoc in experimental evolutionary biology

A postdoctoral fellowship in evolutionary biology is available in the laboratory of Andreas Wagner at the University of Zurich. The fellow will study the evolution and evolvability of biomolecules either through experimental evolution or through the large-scale analysis of adaptive landscapes, using methods such as CRISPR-Cas genome editing. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and life’s fundamental organizational principles. Recent experimental work in the lab ranges from the directed evolution of proteins to the experimental evolution of microbes (e.g., Zheng et al., Science 2020; Toll-Riera et al, Science Advances 2022). Ongoing projects characterize the adaptive landscapes of biomolecules such as enzymes and transcriptional regulators. The successful candidate will have flexibility

in designing their own project within the lab's general research area (see also http://www.ieu.uzh.ch/wagner/).

We are looking for an individual who has received his or her PhD within the last five years, who is highly self-motivated and can work independently on a project that he or she will help develop. The successful candidate will have a strong background in microbiological techniques and molecular cloning. Applicants with experience in approaches such as deep-scanning mutagenesis, molecular barcoding, and CRISPR-Cas-based library design will be especially welcome. Experience with flow cytometry, as well as with computational analysis of high-throughput DNA sequence data, and machine learning applied to biological data will be a plus, as will be a research history in evolutionary biology. The position offers a highly competitive salary of up to three years on annually renewable contracts.

The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to jobs.wagner@ieu.uzh.ch: CV including publication list, academic transcripts, three academic references. In addition, we require a brief sketch of an experimental evolution project that you would like to pursue, and that is part of a brief statement of research interests not exceeding three pages. Please include the word "EXPPDOC23" in the subject line of your application. Applications will be considered until November 1, 2022. The position is available from early 2023.

IEU wagnerjobs <jobs.wagner@ieu.uzh.ch>

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VirginiaTech InsecticideResistanceEvol

Postdoctoral Research Associate, Department of Entomology

Insecticide Resistance Evolution

Job Description

The newly established urban entomology research lab of Dr. Warren Booth in the Department of Entomology at the Virginia Polytechnic Institute and State University is recruiting a 1-year (with possibility of a second-year reappointment) postdoctoral researcher to study insecticide resistance evolution in indoor urban pest insects.

The successful candidate will primarily be responsible for the investigation of insecticide resistance evolution in field-derived German cockroach populations through behavioral and high-throughput biochemical assay-based experiments. The main objectives are (i) to quantify resistance levels to insecticide active ingredients, (ii) to investigate the relationship between population size and cross-resistance profiles, and (iii) to collaborate with the lab of Dr. Dini Miller (Virginia Tech) to develop methods for the rapid assessment of resistance levels in field cockroach strains.

The successful candidate will participate in field collection and management of lab strains, experimental design, and will be responsible for data collection, analyses, and the preparation of peer-reviewed first and co-authored publications. Furthermore, the postdoctoral associate may be asked to assist Dr. Booth in writing grant proposals. The candidate will help manage the Booth Lab, including interacting heavily with post-doctoral researchers, graduate and undergraduate students, and ordering supplies, etc. The candidate will be expected to present the research at scientific meetings. There will be an opportunity to assist with the development and delivery of courses related to urban evolutionary biology taught by Dr. Booth, if desired.

Interested applicants should provide a cover letter, a C.V., and contact information for 3 references. The cover letter should include a brief description of previous research experience and interest in the position. Informal inquires can be sent to Warren Booth (warrenbooth@vt.edu).

Required Qualifications

- Ph.D. in entomology, chemical ecology, or related field awarded no more than four years prior to the effective date of the appointment with a minimum of one year of eligibility remaining. - Detailed understanding of urban pest biology, insecticide resistance mechanisms, and resistance mechanism evolution - Significant expertise in insecticide assays, experimental design, statistical analyses, and scientific writing

Preferred Qualifications

Previous experience with urban pest insect population biology and insect rearing methods.

Appointment Type

Restricted

Salary Information

Commensurate with Experience

Review Date

11/18/2022

Anticipated start date:January 2nd 2023.

Additional Information

Interested applicants should provide a cover letter, a C.V., and contact information for 3 references. The cover letter should include a brief description of previous research experience and interest in the position. Informal inquiries can be sent to Warren Booth (warrenbooth@vt.edu)

The successful candidate will be required to have a criminal conviction check.

Where to apply:

https://careers.pageuppeople.com/968/cw/en-us/-job/522339/postdoctoral-associate About Virginia Tech

Dedicated to its motto,Ut Prosim(That I May Serve), Virginia Tech pushes the boundaries of knowledge by taking a hands-on, transdisciplinary approach to preparing scholars to be leaders and problem-solvers. A comprehensive land-grant institution that enhances the quality of life in Virginia and throughout the world, Virginia Tech is aninclusive communitydedicated to knowledge, discovery, and creativity. The university offers more than 280 majors to a diverse enrollment of more than 36,000 undergraduate, graduate, and professional students in eightundergraduate colleges, aschool of medicine, aveterinary medicinecollege,Graduate School, andHonors College. The university has a significant presence across Virginia, including theInnovation Campusin Northern Virginia; the Health Sciences and Technology Campus in Roanoke; sites in Newport News and Richmond; and numerousExtension officesandresearch centers. A leading global research institution, Virginia Tech conducts more than $500 million in research annually.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or military status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law.

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VirginiaTech UrbanEvolutionaryGenomics

Postdoctoral Research Associate, Department of Entomology

Urban evolutionary genomics

Job Description

A postdoctoral research position is available in the newly established lab of Warren Booth in the Department of Entomology at Virginia Tech, to study the population genomics and evolutionary dynamics of urban pest insect populations. Work will focus on the underlying genomic mechanisms that permit lineage establishment, persistence, and extinction in highly inbreed systems. This work will include, but are not limited to, studies of insecticide resistance evolution, landscape genetics, and mitochondrial heteroplasmy and recombination, within both experimental and natural populations. A variety of next-generation approaches will be used, including RADseq, low-coverage whole genome sequencing, sequence-capture, and transcriptomics.

The successful candidate will be responsible for participating in experimental design, bioinformatic analysis, and the preparation of peer-reviewed first and co-authored publications. Furthermore, the postdoctoral associate will collaborate with Dr. Booth in writing grant proposals. The candidate will help manage the Booth Lab, including interacting heavily with graduate and undergraduate students, and ordering supplies, etc. The candidate will be expected to present the research at scientific meetings and workshops. There will be an opportunity to assist with the development and delivery of courses related to urban evolutionary biology and/or molecular ecology, taught by Dr. Booth, if desired.

Interested applicants should provide a cover letter, a C.V., and contact information for 3 references. The cover letter should include a brief description of previous research experience and interest in the position. Informal inquires can be sent to Warren Booth (currently - warrenbooth@vt.edu).

Required Qualifications

- Ph.D. in integrative biology, evolutionary biology,

molecular ecology, or related field awarded no more than four years prior to the effective date of the appointment with a minimum of one year of eligibility remaining. - Detailed understanding of urban evolutionary biology, invasion biology, molecular ecology, and/or genomics. - Significant expertise in next generation tools, bioinformatic analyses, computational biology through a command-line coding interface, experimental design, and scientific writing.

Preferred Qualifications

Previous experience with population genomics, landscape genetics, transcriptomics, and differential gene expression.

Salary Information

Commensurate with Experience

Review Date

11/18/2022

Anticipated start date:January 2023.

Additional Information

Interested applicants should provide a cover letter, a C.V., and contact information for 3 references. The cover letter should include a brief description of previous research experience and interest in the position. Informal inquiries can be sent to Warren Booth (warrenbooth@vt.edu)

The successful candidate will be required to have a criminal conviction check.

Where to apply: https://careers.pageuppeople.com/-968/cw/en-us/job/522337/postdoctoral-associate
About Virginia Tech

Dedicated to its motto,Ut Prosim(That I May Serve), Virginia Tech pushes the boundaries of knowledge by taking a hands-on, transdisciplinary approach to preparing scholars to be leaders and problem-solvers. A comprehensive land-grant institution that enhances the quality of life in Virginia and throughout the world, Virginia Tech is aninclusive communitydedicated to knowledge, discovery, and creativity. The university offers more than 280 majors to a diverse enrollment of more than 36,000 undergraduate, graduate, and professional students in eightundergraduate colleges, aschool of medicine, aveterinary medicinecollege,Graduate School, andHonors College. The university has a significant presence across Virginia, including theInnovation Campusin Northern Virginia; the Health Sciences and Technology Campus in Roanoke; sites in Newport News and Richmond; and numerousExtension officesandresearch centers. A leading global research institution, Virginia Tech conducts more than $500 million in research annually.

Warren Booth, Ph.D Associate Professor

Urban Entomology Research Lab Virginia Polytechnic and State University Department of Entomology (MC0390) Steger Hall (204/215C), 1015 Life Science Cir Blacksburg, VA 24061 Email: warrenbooth@vt.edu Lab website: www.booth-lab.org Warren Booth <warrenbooth@vt.edu>

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WashingtonStateU Vancouver EvolutionaryGenomics

Postdoc in Evolutionary Ecology and Genomics Washington State University - Vancouver

The Rudman Lab at Washington State University - Vancouver has a National Institute of Health-funded postdoctoral position available in evolutionary genomics. Research in the lab is focused on understanding the interaction between ecology, evolution, and genomics in the process of rapid adaptation. For examples of prior work around this theme, see 1, 2, 3, 4. More information can be found at https://labs.wsu.edu/rudmanlab/ . The ideal candidate will possess the necessary experience and enthusiasm to build on ongoing research in the lab and bring new lines of inquiry. Potential projects include: using genotype-phenotype linkages to predict rapid evolutionary responses; investigating the role of the amount and identity of genetic diversity on the pace and magnitude of adaptation; and building a new study system to investigate adaptive tracking in response to ongoing environmental change. However, candidates with vision and expertise to pursue research on other aspects of rapid adaptation are encouraged to apply.

Salary for this position will be $65,000/year with generous benefits. The initial appointment is for 2 years with opportunities for renewal and the start date is flexible (2022 or 2023). Interested applicants should submit a cover letter, 1-page statement of research interest, a statement outlining past and prospective contributions to advancing diversity, equity, and inclusion in the sciences, contact information for 3 references, and a CV to Seth Rudman (seth.rudman@wsu.edu). Applications will be reviewed on a rolling basis until the position is filled. Informal email inquiries are also welcome.

The Rudman Lab is committed to creating a diverse, equitable, and inclusive working environment. All members of the group are expected to share in this commitment. Candidates from groups historically underrepresented in biological science research are especially encouraged.

Vancouver, WA is located in the Portland, OR metro area and is a beautiful place to live and work. As the only public four-year educational institution in Southwest Washington, WSU Vancouver is dedicated to its land-grant tradition for openness, accessibility and service to people. Situated on 351 scenic acres, WSU Vancouver is in the homelands of the Chinookan and Taidnapam peoples and the Cowlitz Indian Tribe. Employees and students alike value the beauty of campus. Recognized by Insight Into Diversity magazine as a top college for diversity, WSU Vancouver is committed to advancing equity, diversity, inclusion and belonging in all that it does.

"Rudman, Seth" <seth.rudman@wsu.edu>

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WesternU PinePopulationGenomics

Postdoctoral Position in Pine Population Genomics

https://grad.uwo.ca/postdoctoral_services/-western_opportunities/index.html An exciting postdoctoral opportunity is available to join the TRIA-FoR team to study how the genetics of lodgepole and jack pine influences the spread of mountain pine beetle, based in the Coltman lab in the Biology Department at Western University (https://www.uwo.ca/biology/) in London, Ontario, Canada; and also working closely with the Cullingham lab in the Biology Department at Carleton University (https://carleton.ca/biology/-people/catherine-cullingham/). TRIA-For is a team of multi-disciplinary researchers studying the mountain pine beetle system (https://genomecanada.ca/-project/tria-transformative-risk-assessment-and-forest-resilience-using-genomic-tools-mountain-pine-beetle/). This position will lead landscape-scale population genomic analysis of jack pine to determine whether adaptive variation has the potential to affect spread-risk. The candidate will conduct range-wide analyses of jack pine to identify spatial variation in putatively adaptive alleles that may relate to host quality using exome-capture to identify variants throughout the genome of jack pine. The candidate will also extend our analyses to other pine species important to eastern North America from both economic and cultural perspectives.

The ideal candidate will have a Ph.D. in population genetics/genomics, phylogenetics/genomics, molecular ecology, evolution and/or closely related fields, fluency in written and spoken English, and computational proficiency with bioinformatics, including command-line computing. Familiarity with GIS and spatial or landscape genetic analyses, and/or a background in quantitative genetics, are also assets. The candidate should be able to work independently yet also function as an effective member of a large collaborative team. Canadian citizenship or permanent residents will be given preference.

The Department of Biology is a thriving and diverse academic unit, where we study living systems at scales ranging from the level of genes to entire ecosystems. Western University is one of Canada's top research-intensive universities and ranked frequently among Canada's Top 100 Employers. Located midway between Toronto and Detroit and within short driving distances from the Great Lakes, London is known as the "Forest City" and home to "Canada's most beautiful university campus". It is also considered Southwestern Ontario's cultural and educational hub (please also refer to http://www.startlondoncanada.com/ and https://-www.londontourism.ca/).

To apply please submit a cover letter, CV, and the names and email addresses of three references in a single PDF to David Coltman (dcoltman@uwo.ca).

The salary will be commensurate with experience, but competitive with current scholarships (~$45 000 CDN) and is available for one year with the possibility of extension. Review of applications will begin immediately, and the position will remain open until filled.

David Coltman <dcoltman@uwo.ca>

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WorkshopsCourses

Crete ComputationalMolecularEvolution 2023

Dear Community,

Last call for applications for our 2023 version of the summer school on Computational Molecular Evolution in Crete, application deadline is on November 1st.

https://meetings.embo.org/event/23-comp-evolution
Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Affiliated Scientist, Evolutionary Genetics and Paleogenomics (EGP) lab, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas

www.exelixis-lab.org Alexandros Stamatakis <alexandros.stamatakis@gmail.com>

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Dartmouth FundamentalsOfBioinformatics Dec5-9

Fundamentals of Bioinformatics Workshop

The DAC aims to facilitate advanced bioinformatic, computational, and statistical analysis of complex genomics data for the Dartmouth research community.

Workshop Goals:

- Learn how to leverage high performance computing systems (HPCs) to perform Bioinformatic data-analysis - Gain a working knowledge of basic programming in R and how it can be used for Bioinformatics - Learn the major file-types used in bioinformatic data analysis and how to manipulate them - Learn how to install standard bioinformatic software usingConda - Learn how to explore genomics data with theIntegrative Genomics Viewer (IGV)

Attendees will be provided access to recordings of all workshop materials, documents containing all code used during the workshop, a slack channel to facilitate continued communication with the DAC on workshop topics, and office hours for personalized troubleshooting

Monday, December 5, 2022 Wednesday, December 7, 2022 Friday, December 9, 2022

Registration Limit: 40 Workshop will not run with fewer than 25 participants.

Register Here

If you have questions about this workshop, or would like to discuss data analysis services available from the Data Analytics Core, please visit our website, or email us at:

DataAnalyticsCore@groups.dartmouth.edu

Shannon Margaret Soucy <Shannon.Margaret.Soucy@dartmouth.edu>

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DISL MeiofaunaDiversity May10-19

2023 Dauphin Island Sea Lab (DISL) Meiofauna Diversity and Taxonomy Workshop

Dates: May 10-19, 2023 Location: Dauphin Island Sea Lab, Dauphin Island, AL Cost: Free! Application deadline: February 10, 2023 Website: https://www.kocotlab.com/2022-disl-meiofauna-diversity-and-taxonomy.html The overarching goals of this course are to help train the next generation of marine invertebrate taxonomists and to improve the availability of DNA barcode data for expert-identified marine meiofauna in public databases. The course will familiarize students with the vast biodiversity of marine meiofauna through field and laboratory work and produce a collection of expert-identified specimens that will be used for whole-genome amplification for DNA barcoding and other potential future uses such as genomics. We will take a taxon-survey approach to emphasize practical skills essential for collection, identification, characterization, preservation, and molecular analysis of meiofauna. Sampling of diverse habitats on Dauphin Island will provide a wealth of specimens of diverse taxa for our investigations.

World experts (see website for list of mentors) will give lectures on their taxa of interest and other areas of expertise. Morphological laboratory work will emphasize the preparation of specimens for microscopic examination and identification to the level possible with light microscopy. We will not conduct molecular work during the course, but students will learn about sampling and preservation of specimens for molecular techniques and cutting-edge molecular approaches being applied to marine meiofauna. In parallel to the course, we will be conducing sampling for DNA metabarcoding of meiofauna communities around Dauphin Island. Participants will be expected devote significant effort to collection, identification, and preservation of specimens for molecular work as well as help with compilation of species lists, images, and metadata that will be released public databases to broadly benefit the community. Participants will have the opportunity to collect specimens for their own research.

Due to space constraints, the course is limited to just 10 students. We use the term "student" broadly and will consider applicants at diverse career stages interested in studying meiofauna. The course is free, but students will be responsible for travel expenses. Housing in the DISL dorms and meals at the DISL cafeteria will be provided for students.

Please see https://www.kocotlab.com/2022-disl-meiofauna-diversity-and-taxonomy.html for more information and application instructions.

Kevin M. Kocot he/him/his Associate Professor, Department of Biological Sciences Curator of Invertebrate Zoology, Alabama Museum of Natural History The University of Alabama < https://www.ua.edu/ > 307 Mary Harmon Bryant Hall Campus Box 870344 Tuscaloosa, AL 35487 Phone: 205-348-4052 <tel:205-348-4052> | Fax: 205-348-4039 kmkocot@ua.edu | www.kocotlab.com https://uasystem.zoom.us/j/3755490727 Due to my own efforts to strike a work-life balance, I sometimes send emails on weekends or evenings. Responses are never expected outside working hours.

Kevin Kocot <kmkocot@ua.edu>

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MNHN Paris IntegrativeTaxonomy Mar27-31

The course "Integrative taxonomy in the "big data" era" will be from the 27st to the 31th of March, 2023 at the MNHN of Paris, France.

The course is in English. To register, please fill the form on the website of the course (https://sites.google.com/site/coursbarcode/home) before the 9th of January, 2023.

If you have any question, please contact: Nicolas Puillandre (puillandre@mnhn.fr) Sarah Samadi (sarah@mnhn.fr)

Nicolas PUILLANDRE <nicolas.puillandre@mnhn.fr>

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NHM London MolecularPhylogenetics Mar6-10

Dear All,â€

The Natural History Museum, London and NERC are offering a free one-week course "An introductory molecular phylogenetics course: integrating molecules with taxonomy, systematics and evolutionary studies", to run in-person from6-10March2023or online20-24March2023.

The course will be taught by NHM scientists and will benefit anyone wishing to gain expertise in molecular diagnostics and phylogenetic analysis for systematic, taxonomic and ecological studies. The course is sponsored by NERC and the NHM and iscompletely free.â€â€â€

Attendees will receive theoretical and practical training on how to:â€ - Edit raw sequence data (chromatograms) for phylogenetic analysis, align sequences, remove ambiguously aligned sites, use BLAST to identify contamination and find sequences homologous to a query sequence using GenBankâ€ - Perform Bayesian/maximum likelihood analyses using appropriate modelsâ€ - Interpret tree topologies and nodal support and produce publication- ready treesâ€ - Handle metabarcoding and amplicon sequence data from environmental samplesâ€ - Assemble and annotate high-throughput sequencing data

Participants will alsoâ€ - Learn about different methods for phylogenetic analysisâ€ - Become aware of issues that may affect their analyses (long branch attraction, discordance etc)â€ - Understand some problems associated with species delimitationâ€ - Recognise the potential of contemporary sequencing technologies and phylogenomics in particularâ€ - Recognise the pros and cons of different markers for systematics and barcodingâ€ - Learn how to upload new sequences onto GenBankâ€

Note that this course assumes no prior experience with DNA sequence analyses and is an introductory course. As such, it is not appropriate for advanced students. A general understanding of molecular and phylogenetic terminology is assumed. Computers are provided for the in-person course.There are a maximum of12 placesavailable on each course. Travel and accommodation arrangements will be made for participants by our administration team.â€

The course is available to anyone at post-doc and postgraduate level but please note that from a short list (based on perceived need and relevance of the course to the applicant's project)priority will be given to applicants supported by NERC, working on a NERC grant or based at a NERC institute.In the past, however, we have always had several non-NERC applicants and this year we have more spaces than in the past.Applicants are selected based on perceived need and relevance of the course to the applicant's project. Travel and accommodation arrangements for the in person course will be made for participants by our administration team.â€â€

More information, including the application forms, can be found here:

https://www.nhm.ac.uk/our-science/courses-and-students/introductory-molecular-phylogenetics-course.html.â€â€Return completed applications to:molec_NHMNERC@nhm.ac.uk.â€Note that this is an automated email account - do not send queries.Your application will receive a bounce back messageto confirm receipt of your application.â€

If you have any queries about the course content, please write to Dr Suzanne Williams (s.williams@nhm.ac.uk). For administrative questions (e.g. travel, accommodation) please contactMs Anna Hutson (a.hutson@nhm.ac.uk).â€

Best wishes,â€â€ Suzanne Williamsâ€â€â€

Dr Suzanne Williams Principal Researcher Natural History Museum Cromwell Rd London, SW7 5BD United Kingdom

Phone: +44 (0)20 7942 5351 Twitter: @STWilliams_NHM

Personal:https://www.nhm.ac.uk/our-science/-departments-and-staff/staff-directory/suzanne-williams.html Division:https://www.nhm.ac.uk/-our-science/departments-and-staff/life-sciences/-invertebrates.html National Geographic Citizen Science Project:https://www.nhm.ac.uk/take-part/-citizen-science/have-you-seen-this-starfish-wanted-alive-and-in-colour.html iNaturalist Project:https:/-/www.inaturalist.org/projects/colour-of-linckia-sea-stars Suzanne Williams <s.williams@nhm.ac.uk>

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— / —

Online BioinformaticsWinterSchool Jan16-20

Dear all,

registration is now open for the Physalia Winter School in Bioinformatics: (https://www.physalia-courses.org/-courses-workshops/course68/)

Dates: (online) January 16th-20th

This course will introduce participants to the field of Next Generation Sequencing biology, understanding both the concepts and handling of the data. We will cover a broad range of software and analyses from quality assessment of sequencing runs, through assembling and annotating small genomes, RNAseq and differential gene expression, and phylogenomics with NGS data. Primarily focussed on Illumina data, we will also look at the different requirements and opportunities when utilising long-read data (Nanopore/PacBio). This course will be accompanied by sessions on the use of Docker, which is the preferred platform for most bioinformatic analyses, as well as software containers, with a particular focus on best practices for reproducibility.

If you do not have prior knowledge of Unix and shell scripting, please have a look at our "UNIX and shell scripting for bioinformatics" course (January, 9th-13th): (https://www.physalia-courses.org/courses-workshops/-unix/)

In this course, you can learn the most powerful Unix commands and how to connect to external resources/servers, install specialist tools, and ultimately combine commands into scripts for automation and reproducibility.

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please do not hesitate to contact us at (mailto:info@physalia-courses.org)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://twitter.com/Physacourses)

"info@physalia-courses.org" <info@physalia-courses.org>

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Online CancerGenomicsInR Jan23-27

Dear all,

registration is now open for the Physalia course "Analysis of cancer genomes using R and bioinformatic tools".

Dates: online, January 23rd-27th

Course website: (https://www.physalia-courses.org/-courses-workshops/cancer-genomics/)

On this course, which has been divided into five segments, you will learn how to process "raw" sequencing reads, and call the three most fundamental types of mutations found in cancer genomes: somatic single nucleotide variants, insertions and deletions, and chromosome copy aberrations. The background, theory, and main tools available will all be covered in the first part of the course. In the final segments you will learn advanced methods for sample quality control and tumour subclonal deconvolution, the task in which somatic variants are used to determine the tumour architecture (i.e., how many clones constitute the cancer) from an evolutionary perspective. Together this course will prepare any would be bioinformatician for further education or employment within a cancer research laboratory.

Here is the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://twitter.com/Physacourses)

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Online GenomeAssemblyPacbioLongReads Nov14-18

Dear all,

there are the last 4 seats available for the 3rd edition of the Physalia course "EUKARYOTIC GENOME ASSEMBLY USING PACBIO (HIFI AND CLR) AND HI-C "

Dates: Online, November 14th - 18th

Course website: https://www.physalia-courses.org/-courses-workshops/pacbio/ This course will introduce the audience to a spectre of methods which are present in a usual assembly workflow, starting from raw data and finishing with a fully assembled genome. We will see how to manipulate raw reads, analyse their quality, how to run different assembly algorithms, how to run Hi-C scaffolding algorithms and how to analyse assembly quality.

Learning outcomes

Understanding PacBio HiFi (mostly), PacBio CLR, and Hi-C data. Understanding the concepts of de novo genome assembly. Obtaining practical experience in using state-of-the-art tools for de novo assembly and assembly quality assessment.

Full list of our courses and Workshops: https://-www.physalia-courses.org/courses-workshops Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://twitter.com/Physacourses)

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Online GenomicPrediction Feb6-10

Dear all,

registration is now open for the 3rd edition of the Physalia course "Genome-wide prediction of complex traits in humans, plants and animals":(https://www.physalia-courses.org/courses-workshops/-course49b/)

Dates: online, 6th-10h February 2023

This course will introduce students, researchers and professionals to the steps needed to acquire expertise in the genomic prediction area applied to animals, plants and humans. We will start by introducing general concepts of Quantitative Genetics and mixed model theory, progressively describing all steps and putting there seamlessly together in a general workflow.

LEARNING OUTCOMES

Interpreting and calculating the genomic breeding value and genomic risk score Understanding the different steps involved in a typical genomic prediction analysis and how to implement computer tools to carry them on. Implement cross validation design to estimate the ability of genomic data to predict complex traits, and its application in human genetics and breeding programs.

Here you can find the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

All the best,

Carlo

"info@physalia-courses.org" <info@physalia-courses.org>

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Online MorphologicalPhylogenetics Nov28-Dec9

Dear colleagues,

Registration is open for Transmitting Science's course Morphological phylogenetics: principles, applications, and techniques. 6th Edition. This course will be held live online (synchronous). Max 18 participants.

DATES: November 28th - December 9th, 2022

INSTRUCTORS:

Dr. Tiago Simï¿½es (Harvard University, United States of America)

Dr. Nicolas Mongiardino Koch (University of California San Diego, Unites States of America)

COURSE OVERVIEW

An accurate reconstruction of evolutionary relationships among species is the cornerstone of evolutionary biology. Building phylogenetic trees thus provides the fundamental framework upon which systematic, biogeographic and evolutionary research operates. Morphological phylogenetics provides a unique toolkit for inferring relationships, considering that the vast majority of the species that have ever lived are now extinct and can only be assessed based on morphological data. Additionally, combining fossils and morphological data with molecular data from extant species is becoming the most comprehensive method of assessing phylogenetic relationships on deep time and the time of origin of major evolutionary lineages. In this course, we will focus on the analysis of morphological data (and combining morphological data with molecular data) using multiple optimality criteria for phylogenetic inference. We will discuss the best available approaches to construct morphological data sets and their impact on phylogenies. We will follow with theory and hands-on practice of phylogenetic programs using maximum parsimony, maximum likelihood and Bayesian inference. Participants will learn how to combine morphological and molecular data for total evidence analyses, how to conduct time-calibrations using tip and node dating, different birth-death models, morphological clocks and combined evidence relaxed clock analyses. Customized course materials will be provided.

Software: Mesquite, TNT, RAxML, IQTree, Mr. Bayes and BEAST.

You can find more information in https://-www.transmittingscience.com/courses/evolution/-morphological-phylogenetics-principles-applications-techniques/ or writing courses@transmittingscience.com

Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890 Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or http://transmittingscience.com/additional-terms. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www. aepd.es . Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction.

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Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online Paleogenomics Nov28-Dec1

Hi all,

registration is now open for the new Physalia course "Incorporating paleogenomes into evolutionary genomics studies" from November 28th to December 1st.

Course website: (https://www.physalia-courses.org/courses-workshops/adapt/-?fbclid=IwAR2KQWBjpnENCY2a-caUWAu_qcNNOzAKw2UhNtGBydAIZlTFq4_FPFCIW6A)

Instructors: Dr. Andrew Foote (Norwegian University of Science and Technology) and Dr. Marie Louis (Greenland Institute of Natural Resources)

This course is free of charge and it is funded by the ADAPT ESEB special topic network. Participants must be student members of ESEB (The European Society of Evolutionary Biology). Student membership costs 15 euros and comes with a range of benefits, including reduced open access publishing and conference fees: (https://-/eseb.org/society/eseb-membership/) The course will cover mapping, filtering and quality control checks of ancient DNA. Inference of population structure when including ancient DNA samples. Inferring demographic histories using of ancient samples. And lastly, assigning genomic regions under selection to distinct adaptive haplotypes of known association with specific habitats. The practical examples will largely be based around the analyses and data from the (https://doi.org/10.1016/-j.cub.2021.02.027) on ancient threespine sticklebacks.

Full list of our courses and Workshops: https://-www.physalia-courses.org/courses-workshops Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://twitter.com/Physacourses)

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Online UTartu EvolGeneticsMedicine Nov28-Dec9

The Tartu Winter school on Evolution, Genetics and Medicine 2022

This is the second school of a series of annual international courses that brings together evolution, genetics and medicine. The school is organised by the cGEM group at the Institute of Genomics, University of Tartu, Estonia (cgem.ut.ee).

Programme The course is focussed on methods and resources for identifying the present-day consequences of past natural selection for phenotypic variation and susceptibility to disease, and will cover advanced methods for inferring evolutionary histories from genomics data and linking them to large-scale genomic and functional datasets. Lectures introducing theoretical concepts and methods will be combined with workshops designed to give hands-on experience.

Anders Eriksson: Evolutionary theory of complex traits Karoline Kuchenbaeker (U. College London, UK): Trans-ethnic GWAS of complex traits Vasili Pankratov: Tree-based based methods of evolutionary inference Michael Dannemann: Introgression from archaic humans Mayukh Mondal: Deep learning methods for evolutionary inference Tonis Org: Epigenetics and cell-based functional assays

The school will be held online November 28 - December 9 and will be free of charge. More information is coming soon, see the course webpage: https://cgem.ut.ee/-summerschool2022 *Application* The course is aimed at PhD students of mathematics and bioinformatics with an interest in evolution. We also welcome students from biological and medical backgrounds with sufficient background in computational analysis, advanced undergraduates, and postdocs.

Applications are to be sent by email to anders.eriksson@ut.ee. The application should contain: * Full contact data (name, affiliation, postal address, email address) * A brief CV containing prior studies and/or positions * A one-paragraph description of scientific interest and motivation * List of publications (if any)

Please send all relevant information in one pdf file (not in the email text).

The deadline for applications is November 14 and we shall notify all applicants by November 18.

Please do not hesitate to contact the organisers for any questions (Dr Anders Eriksson, anders.eriksson@ut.ee).

Best wishes Anders Eriksson

Associate Professor of Interdisciplinary Research in Genomics Center for Genomics, Evolution and Medicine (cGEM) Institute of Genomics University of Tartu email: anders.eriksson@ut.ee

Jon Anders Eriksson <anders.eriksson@ut.ee>

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RENCI ChapelHill NorthCarolina Phenoscape Jan

Call for Participation - Phenoscape TraitFest 2023

The Phenoscape (https://phenoscape.org/) team is hosting a 3.5 day hands-on workshop, TraitFest 2023, in January 2023 at RENCI (https://renci.org), in Chapel Hill, North Carolina. If you are interested in generating, discovering, linking to, recombining, or computing with machine-interpretable trait data, this is the workshop for you!

The event will bring together a diverse group of people to collaboratively design and work on their research interests to take advantage of and promote reuse of Phenoscape's online evolutionary data resources, tools, infrastructure, and services. The event is designed as a hands-on unconference-style workshop. Participants will break into subgroups to collaboratively tackle self-selected projects.

The full Call for Participation is available here: https://hackmd.io/ENiGYhDvT0a5ryjDdDOMEg To apply to participate in the event, please fill out the application for participation (https://forms.gle/-DddnTyNERWqGW4ch8) by November 7, 2022. Funds to cover travel expenses are available but limited, as is space. We expect to notify applicants about acceptance starting one week after the application due date.

wdahdul@gmail.com

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

SanDiego PopConservGenomics Jan13-18

Call for Abstracts Population and Conservation Genomics Workshop Plant and Animal Genome 30 (PAG 30) International Conference http://www.intlpag.org/ January 13-18, 2023 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome 30 International conference. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include (but not limited to): population genomic diversity and structure; molecular evolution; landscape genomics; seascape genomics; natural selection and local adaptation; ecological and evolutionary genomics; population epigenomics; paleogeneomics; eDNA; bioinformatics in population and conservation genomics; population genomics of speciation; metapopulation genomics; application of genomics in breeding, forensics, biogeography, demography inferences, and conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The Workshop will have 2 sessions with a provision for 12 invited speakers. Most of the invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 31, 2022. You will be notified by November 7, 2022 whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora University of New Brunswick Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477

Om Rajora <om.rajora@unb.ca>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca)

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.