E v o l D i r

December 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

Bielefeld EvolutionBehaviour Aug14-20

You are an evolutionary biologist working on topics related to animal behaviour? You have missed out on in-person scientific exchange and networking opportunities in the past years? We might have the right conference for you! The Behaviour 2023 conference intends to bring together international scientists from a broad range of fields working on questions related to behaviour. If that sounds like a good fit, please have a look at our conference announcement below and visitwww.behaviour2023.comfor more information.

Join us at the Behaviour 2023 in Bielefeld, Germany!

We are delighted and honoured to host the Behaviour 2023 conference in Bielefeld between the 14th and 20th of August 2023. After two years of rather restricted scientific get-togethers, we very much hope you will be coming to experience a week of frantic scientific activity. Bielefeld hosted the International Ethologicial Congress, as it was known back then, once before in 1977 and we are thrilled to try our best to make 2023 an equally exciting and stimulating event. To make this conference as integrative as possible, we aim to offer comparatively low conference fees and ensure inclusivity and accessibility during the conference. Please make sure to regularly check for updates on plenary speakers, symposia and other information on www.behaviour2023.com or directly sign up for our newsletter there. Make sure to also follow us on twitter (@2023behaviour) or Facebook (Behaviour 2023) for the latest news and updates and

to share our excitement with us on social media. We are looking forward to meeting you in Bielefeld!

The organising committee E-mail: behaviour2023@uni-bielefeld.de Phone: +49 521 106-2840

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call for symposium proposals: ___

You are an evolutionary biologist working on topics related to animal behaviour? You have missed out on in-person scientific exchange and networking opportunities in the past years? We might have the right conference for you! The Behaviour 2023 conference intends to bring together international scientists from broad range of fields working on questions related to behaviour. If that sounds like a good fit and you would like to actively shape the focus of the conference by organising a symposium, please have a look at our call for symposium proposals below end visit www.behaviour2023.comfor more information.

Behaviour 2023

Call for submission of symposium proposals

A significant part of the scientific programme is arranged in symposia topics that are suggested by the scientific public. Symposia topics can be on any theme related to behaviour: specific or broad, emerging or well established. A symposium normally consists of around 5-10 oral presentations covering a range of experience and backgrounds, 1-2 of which are given by invited speakers by the symposium organisers. The oral presentations will be 12 min each and invited speakers have extended speaking time to 30 min if desired. Alternatively, if you are interested in finding co-hosts to organize an interdisciplinary symposium centered around behaviour, contact us at behaviour2023@uni-bielefeld.de.

Symposium proposal

You will be asked to provide: 1. The names and email addresses of the primary organiser (for all communication) and 1-2 co-organiser(s), who must be committed to attend the whole meeting. 2. The proposed symposium title. 3. A maximum 200-word explanation justifying why you feel your proposed topic warrants a symposium at the conference. 4. The names of the invited speaker(s) (please check beforehand whether they are indeed available). You can also submit titles of potential invited talks (optional).

How to submit a symposium proposal

- Please submit your symposium proposal only using the email behaviour2023@uni-bielefeld.de - Symposium proposal has to be submitted by a primary organiser of the symposium. - A primary organiser of the symposium is considered to be a contact person.

Deadline

The deadline for submission is December 1, 2022.

Evaluation

Proposals will be evaluated by the Scientific Committee, and the selected list will be communicated in January 2023. Successful symposium conveners are expected to play a major role in evaluating submitted abstracts for their respective symposia. Evaluation of complete symposium proposals will be based mainly on originality, interest and relevance to behaviour and balance, in terms of gender, nationality and career stage of invited speakers and symposium organisers will be maintained. Successful symposium organisers are expected to do the same when selecting oral presentations. Conveners are expected to give a short introduction at the start of the symposium. Please note that we cannot pay conveners or invited speakers for either conference tickets or transportation.

Contact

Proposals and inquiries can be directed to

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Brazil FlatwormEvolution Jul24-28

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 São 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 São Paulo State, Brazil, in the municipality of São Sebastião < 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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CaliforniaStateU Fullerton Anthropocene Apr7-8

What should we do about the Anthropocene?

A Call for Papers:

Date: April 7-8, 2023 Location: Pollak Library, California State University Fullerton

Subject Fields: natural sciences, engineering, humanities, social sciences

Over the last twenty years, geologists have come close to concluding that we live in a new geological epoch called the Anthropocene. Identifying a geological epoch as the Anthropocene presumes that human activity has affected the Earth System and effected changes to the rocks and minerals that compose the planet in ways that will survive the human species. In a meeting in Berlin in May of 2022, members of the Anthropocene Working Group proposed candidates for the geological site and record that would define a time boundary, the Global boundary Stratotype Section and Point or GSSP, located in the year 1950, marking the end of the Holocene and the beginning of the Anthropocene, a major step in the acceptance of the new epoch in the geologic scientific community. At the same time, scholars in the humanities and social sciences have increased attention to issues arising from what many now see as the end of the so-called modern historical period. Growing awareness of the crisis of climate change have led to concerns that humans have become agents in natural history ï¿$\frac{1}{2}$ ï¿$\frac{1}{2}$"not just social and political history ï¿$\frac{1}{2}$"and that the historical moment now demands thinking at several different registers at once including the material, the historical or socio-political, and the natural historical. While the word, "Anthropocene," remains controversial, its increased use across the Academy has led the organizers of this conference to think that inviting speakers from across disciplines to discuss the issues that cluster under its name, is both timely and useful. We therefore invite speakers from the natural sciences, engineering, humanities, social sciences or indeed any other field to submit a proposal for papers to be presented in a two-day conference at California State University Fullerton on the subject of "What should we do about the Anthropocene?"

The conference is in-person but will also include virtual presentations. Papers will be around 30 minutes in length including time for questions. Please send an abstract of not more than 250 words by 5pm PST Monday January 23rd, 2023, to:

Emily Bonney: ebonney@fullerton.edu Kevin Lambert: klambert@fullerton.edu

"Lambert, Kevin" <klambert@fullerton.edu>

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ColdSpringHarbor PopSimSatellite Mar8

the PopSim Consortium aims to make chromosome-scale population genomic simulations accessible to all. Our first paper announced the creation of the resource and the initial catalog of species modeled: https://elifesciences.org/articles/54967 . We just submitted a preprint describing the expansion of that catalog: https://www.biorxiv.org/content/10.1101/-2022.10.29.514266v1 . And we are finalizing the analysis of new simulations from a framework including natural selection.

Potential next steps include: sex chromosomes, quantitative traits, and open inference competitions. But this is a community effort, so your thoughts matter!

To plan the next steps in the consortium, we are holding a one-day satellite meeting before ProbGen 23: https://meetings.cshl.edu/meetings.aspx?meet=-PROBGEN&year# . The satellite meeting would be Wednesday morning and afternoon before ProbGen kicks off in the evening. We'll have a workshop, discussion of the consortium's future directions, and lightning talks to highlight applications of stdpopsim.

We expected to have a virtual attendance option. But for planning purposes, we need to estimate the number of in-person attendees. Please reply to rgutenk@arizona.edu: are you interested in attending the PopSim satellite meeting in person before ProbGen 23?

Ryan Gutenkunst Associate Professor and Associate Department Head Department of Molecular and Cellular Biology, University of Arizona phone: (520) 626-0569, office: LSS 325, web: http://-gutengroup.arizona.edu "Gutenkunst, Ryan N - (rgutenk)" <rgutenk@arizona.edu>

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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 Aut-noma de M-xico (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 Biolog-a 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 ESPA-OL

La Sociedad de Bi-logos Sistem-ticos (SSB) y el Instituto de Biolog-a de la Universidad Nacional Aut-noma de M-xico (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 M-xico, los d-as 14 y 15 de enero del 2023.

La reuni-n de la SSB es una excelente oportunidad para conocer de primera mano los descubrimientos y m-todos m-s recientes en biolog-a filogen-tica. Esta reuni-n es uno de los foros m-s relevantes sobre el tema, y esta ser-la primera vez que se lleve a cabo en Latinoam-rica.

La mayor parte de las actividades transcurrir-n en el campus de la UNAM, que es considerado patrimonio de la humanidad por la UNESCO. La recepci-n se llevar- a cabo en el recientemente inaugurado Pabell-n Nacional de la Biodiversidad, el cual conjuga funciones de difusi-n e investigaci-n y es -nico en su tipo en Latinoam-rica. La clausura se llevar- a cabo en el Palacio de la Escuela de Medicina, ubicado en el Centro Hist-rico de la Ciudad de M-xico, y que es un majestuoso ejemplo de la arquitectura virreinal de la Nueva Espa-a.

Las modalidades de trabajos contempladas para esta reuni-n incluyen pl-ticas rel-mpago y carteles. Durante la reuni-n se llevar-n a cabo foros y conferencias sobre t-picos de avanzada en el -rea y tambi-n se realizar-n talleres pre y post-reuni-n.

La participaci-n en la reuni-n est- restringida a las personas con membres-a vigente en la SSB, por lo que es necesario inscribirse a esta sociedad cient-fica. La membres-a brinda m-ltiples beneficios: ademas de la participaci-n en reuniones tambi-n incluye el acceso a la revista Systematic Biology. Adicionalmente, para estudiantes tambi-n incluye la posibilidad de solicitar apoyo econ-mico para asistir a los eventos organizador por la Sociedad. La membres-a anual es vigente hasta el 31-12-2023.

La SSB y el Instituto de Biolog-a de la UNAM han realizado un esfuerzo significativo para proporcionar apoyos para estudiantes y personas que realizan investigaciones posdoctorales, lo que se ve reflejado en el monto de la cuota de inscripci-n y de otras actividades.

Correo-e de contacto ssb.2023.ib@gmail.com

Informaci-n completa sobre la reuni-n https://-www.ib.unam.mx/ib/ssb2023/ Registro para la reuni-n https://www.ib.unam.mx/ib/ssb2023/registration-

and-abstracts

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Mnster Germany Evolution Registration

Dear Evolutionary biologists,

Registration for the Mï¿½$\frac{1}{2}$nster Evolution Meeting (MEM 2023) is now open!

https://www.uni-muenster.de/Evolution/MEM/-registration/registration.html The Mï¿½$\frac{1}{2}$nster Evolution Meeting (MEM) aims to provide a forum for all Evolutionary Biologists working across different fields. Besides having the opportunity to share and learn about excellent research in evolutionary biology, MEM also aims at bringing together Evolutionary Biologists working in German-speaking countries in a smaller setting to allow for intensive networking and discussion. For queries, please get in touch with mem@uni-muenster.de

Best wishes, MEM organization team

"Evolution Meeting, Mï¿½$\frac{1}{2}$nster" <mem@uni-muenster.de>

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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_ xt-toV6ahjQEPEIzDYiPiAA1%40thread.tacv2/ 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 Nov9 SalmonPhyloGeo

Dear All,

The next CIGENE seminar is in just one week and we are pleased to welcome Dr. Eric Vespoor, who will tell us about "Pleistocene glaciations and mitochondrial diversity evolution in the Atlantic salmon"

Summary: "Fluctuating Pleistocene landscapes and environments, involving glaciation cycles, have repeatedly shifted species' distributions in the Northern Hemi-

sphere, driving an evolutionary meta-population dynamic of local population extinctions and recolonizations, including contractions into, expansions out of, glacial refugial areas. We address this question in the Atlantic salmon by developing an independent phylogeographic hypothesis (IPH) for the eastern part of its North Atlantic range from a consideration of regional Pleistocene environmental change and the species' life-history, distributional and dispersal biology. We test the IPH using a collated mitochondrial SNP data set for ~13,000 individuals from ~200 river systems. The observed diversity largely accords with the IPH and provide novel insight into how glaciation dynamics condition diversity evolution in the species."

Time: Wednesday, Nov 9th, 12-13 (Oslo time) For more information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 See you soon!

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 SalmonParasites Nov30

Dear All,

At the next CIGENE seminar, we are pleased to welcome Ryota Hasegawa, who will tell us about "Ecological study of the lernaeopodid copepod of the genus Salmincola -geographic distribution and causality between host body condition and infection."

Summary: Abstract: The genus Salmincola is an ectoparasitic copepod group commonly infecting the gill and mouth cavities of freshwater salmonids. Historically, the members of the genus have been known as major pests in hatcheries, but studies shedding light on their ecology in the wild have been limited. Here, I present the recent studies examining the distribution pattern within/among watersheds and effects on the host of Salmincola spp. in the Japanese region.

Time: Wednesday, Nov 30th, 12-13 (Oslo time) For more

information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 See you soon!

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 WolfGenomics Nov16

Dear All,

At the next CIGENE seminar, we are pleased to welcome Linnea Smeds, who will tell us about "Deleterious variation and genetic load in inbred Scandinavian wolves."

Summary: The present Scandinavian wolf population was founded by three individuals around 40 years ago, after the original population had been hunted to extinction. Because of the small number of founders and the fact that they are geographically isolated from the nearest other wolf population which makes further immigration sparse, the population is extremely inbred. To see how this affects the genetic load, we used functional annotation and evolutionary conservation scores to study deleterious variation in a total of 209 genomes from the Scandinavian population as well as neighbouring populations in Finland and Russia. Our observations provide genome-wide insight into the magnitude of genetic load and genetic rescue at the molecular level, and in relation to population history.

Time: Wednesday, Nov 16th, 12-13 (Oslo time) For more information, check out the seminar website: https://cigene.no/cigene-seminar-series/ Zoom link: https://nmbu.zoom.us/j/67064421833 See you soon!

* Dr. Eric Vespoor, the previoue speaker was sick and his talk on the 9th was canceled. We are trying to reschedule it.

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.saitou@nmbu.no

OnlineSeminar ESEB STN Speciation Dec6

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 6 December 2022, 9 am CET.

The upcoming session addresses the topic of "Hybrid zones as windows into speciation". We welcome as speakers Anna Runemark (Lund University, Sweden) and Joshua Peñalba (Museum für Naturkunde, Germany).

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 use the following link: https://gu-se.zoom.us/j/62549257446 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 Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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OnlineSeminar ESEB STN Speciation Nov8

Dear colleagues,

A reminder that 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 8th 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/ . Alternatively, use the following zoom link directly: https://gu-se.zoom.us/j/64741373672?pwd=-VHVzZldWeTVMT1Rsd0t4bjBjZmtIUT09 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

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

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OnlineSeminar ESEB STN Speciation Nov8th

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– NERC Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk

OxfordU MNH AlfredRusselWallace Jan9

Dear Evoldir,

This one-day symposium aims to celebrate the 200th anniversary of Alfred Russel Wallace's birth and discuss his contribution to science and society. It will be held at the Oxford University Museum of Natural History(Oxford, UK) in the Westwood Room on 9 January 2023both in person and online. The event is free but registration is required for all participants.

Speakers include James Costa, George Beccaloni, Robert Whittaker, Zoë Simmons, Victor Rafael Limeira-SaSilva, Jeb Bevers, Jon Abblett, and Pïetro Corsi.

To find the detailed program and registration form, follow this link :

https://mfo.web.ox.ac.uk/event/symposium-alfred-russel-wallace-1823-2023 We're looking forward to meeting you in Oxford or online

Organising team : Laurence Talairach, Christophe Thébaud and Pascal Marty

With sponsorship from : Oxford University Museum of Natural History , Maison des Français d'Oxford, Centre Alexandre Koyré, MSHS-Toulouse

Christophe Thebaud <christophe.thebaud@univ-tlse3.fr>

GradStudentPositions

ArkansasStateU FishPhylogenomics

The Fluker Lab (https://www.flukerlab.com/) and Sweet Lab (https://www.sweetomics.com/) at Arkansas State University are seeking qualified applicants for a PhD Graduate Research Assistantship to study phylogenomics, population genomics, and taxonomy of the Rosyface Shiner complex in Arkansas and beyond. Start date Summer or Fall 2023.

Program options: PhD program in Environmental Sciences (EVS) or Molecular Biosciences (MBS)

Compensation: Salary is $18-20K per year with tuition waiver. Funding includes supplies, field travel, and conferences.

Qualifications and experience: BS or MS in Biology or related field. Prior research experience desired. Ideal candidates will have some combination of experience in aquatic/fish sampling, genomic techniques, bioinformatics, scientific writing, and taxonomy.

Application deadline: February 1, 2023

Please send a single PDF file with 1) statement of interest, 2) CV, 3) transcripts, and 4) contact information for 3 references to: Dr. Brook Fluker (bfluker@astate.edu) Dr. Andrew Sweet (asweet@astate.edu)

– Andrew D. Sweet, Ph.D. Assistant Professor of Evolutionary Biology Department of Biological Sciences Arkansas State University Jonesboro, AR USA Website: https://www.sweetomics.com/ Andrew Sweet <asweet@astate.edu>

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AuburnU EvoDevo

The Range lab at Auburn University is recruiting graduate students interested in evolutionary and developmental biology (www.therangelab.com). Research in the lab focuses on understanding the evolution of developmental mechanisms that control early axis formation using the comparative models of temperate and Antarctic echinoderm sea urchins as well as hemichordate acorn worms.

A current NIH-funded research project uses sea urchin embryos to explore how an interconnected network of three different Wnt signaling pathways (Wnt/Beta-catenin, Wnt/JNK, and Wnt/Ca2+) coordinate the specification and patterning of the anterior-posterior axis during early embryogenesis. We also use hemichordate embryos to compare and contrast early AP axis formation between these phyla to provide insight into AP axis formation in the common deuterostome ancestor.

Another newly NSF-funded project focuses on uncovering adaptations to the early gene regulatory networks used by the cold-water sea urchin species Sterechinus neumayeri that allow them to develop at sub-freezing temperatures. We anticipate that this study will not only inform our understanding of the molecular mechanisms required for adaptation to an extreme environment but also will provide insight into how early embryonic developmental rate is controlled in sea urchins as well as other metazoans.

The positions are for masters and PhD students beginning in the Fall of 2023. Students will have the choice to work on any number of projects in the lab. The positions offer training in a combination of molecular manipulations, high-throughput genome-wide assays and bioinformatics, gene regulatory network analysis as well as classical embryology.

Auburn is a Tier 1 research institution with great facilities and research support. The university is situated in the quintessential college town of Auburn, Alabama and is located close to several major cities (e.g., Atlanta [1.25 hrs] and Birmingham [2 hrs]), the beaches along the Gulf and Atlantic coasts, and the Appalachian Mountains. You can learn more about the Department of Biological Sciences at Auburn University at http://www.auburn.edu/cosam/departments/biology/ . Interested applicants should contact Dr. Ryan Range at range@auburn.edu. With your inquiry, please include a CV and a brief description of your research interests and experience. GRE scores are not required by the Department of Biological Sciences at Auburn.

Applications for Fall 2023 are accepted until February 1st, 2023. In-person interviews at Auburn are available. There will be a graduate student recruitment hosted by the Department of Biological Sciences in mid-January for interested students if they contact Dr. Range before December 31st.

Ryan Range <rangepurp@gmail.com>

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BangorU AnthropoChangePoisonFrogs

PhD position (fully funded) available to study the effects of Anthropogenic habitat disturbance on poison frog microbiomes and disease susceptibility

The labs of Dr. Aaron Comeault and Dr. Amy Ellison are inviting applicants for a PhD studentship (stipend + research funds) to be held at Bangor University in North Wales (UK and international applicants welcome).

This project explores the impacts of Anthropogenic disturbance on Poison frogs in Ecuador and is in collaboration with Dr. Justin Yeager at Universidad de Las Américas (Ecuador) and Dr. Carly Muletz-Wolz at the Smithsonian National Zoo and Conservation Biology Institute (USA). Details below, deadline for applications is 11 January 2023 via the Envision DTP website.

Link: https://www.envision-dtp.org/2022/anthropogenic-change-and-disease-susceptibility-in-poison-frogs-identifying-links-with-diet-skin-alkaloids-and-the-microbiome/ Description: Anthropogenic disturbance, coupled with climate change, is a leading cause of biodiversity loss. In Ecuador, approximately 97% of the Chocó biodiversity hotspot is now deforested,

underscoring the need to understand and predict species' responses to Anthropogenic change. This project will interrogate behavioural and microbial responses in the diablito poison frog, Oophaga sylvatica as a test case to assess how species respond to disturbance and climate change. Because microbiomes are dynamic and affected by both the ecology and genetics of their host, a central goal in disease ecology is to understand how the environment interacts with an organism's behaviour to affect both their microbiome and disease susceptibility.

In this project, the student will use a combination of fieldwork and molecular approaches to investigate the links between Anthropogenic habitat modification, frog behaviour, the microbiome of the diablito poison frog (Oophaga sylvatica), and susceptibility to the fungal skin pathogen Batrachochytrium dendrobatidis (Bd); considered one of the greatest threats to vertebrate biodiversity around the world.

The project offers a wealth of opportunities for the student to gain experience in molecular biology, evolutionary genetics, microbiology, disease ecology and science communication. The studentship will be based within the Molecular Ecology and Evolution group at Bangor University (meeb.bangor.ac.uk), a world leader in the analyses of molecular data addressing global issues in disease biology and evolutionary genomics. It offers a dynamic and supportive training environment for young scientists. The student will also undertake fieldwork and internships with project partners in Ecuador and the USA.

Essential skills are a minimum 2:1 BSc or equivalent in Life Sciences, with good numerate skills and enthusiasm for disease ecology, genome analyses, and tropical fieldwork. Desirable skills are a postgraduate degree (e.g. MSc or MRes) and/or contribution to scientific publication, molecular laboratory and/or international fieldwork.

For informal enquiries, please contact Dr Aaron Comeault (a.comeault@bangor.ac.uk) and/or Dr Amy Ellison (a.ellison@bangor.ac.uk)

Aaron A. Comeault, PhD. (he/him/his) Lecturer in Zoology (Evolutionary Biology) Molecular Ecology and Evolution at Bangor Bangor University, School of Natural Sciences Environment Centre Wales Deiniol Road, Bangor, Gwynedd, LL57 2UW, UK

website: http://meeb.bangor.ac.uk/staff/aaron-comeault Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg neu Saesneg. Ni fydd gohebu yn Gymraeg yn arwain at oedi.

You are welcome to contact the University in Welsh or English. Corresponding in Welsh will not lead to delay.

BiologyCentre CZ HybridPlantInsectInteractions

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

PhD Studentship in Insect-Plant Interactions 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 labo-

ratory 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 in 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 Volf lab: https://www.volflab.com/- 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

ClarkU EvolutionInsectBehavior

PhD position in behavioral ecology at Clark University

The McCullough lab at Clark University is looking for a motivated and creative PhD student to join our research team, starting Fall 2023. Research in the McCullough lab focuses on sexual selection, reproductive evolution, and behavioral ecology in arthropods. The student will be encouraged to develop their own dissertation project related to one of the following themes:

1. Interactions between pre- and post-mating sexual selection in dung beetles 2. Evolution of male seminal fluid in dimorphic dung beetles

Admitted students are guaranteed five years teaching assistantships, which includes a tuition waiver, competitive stipend, and health insurance. Interested students are encouraged to email Erin at ermccullough@clarku.edu. Please include: 1) a brief statement describing your interest in joining the lab, 2) your resume/CV, and 3) names and contact information for three references and their relationship to you (e.g., professor, supervisor). Informal inquiries are welcome.

The application deadline for the Graduate Program is January 15. To apply, please visit: clarku.edu/graduate-education/admissions/how-to-apply-graduate-admissions-requirements/

The Biology Department is a close-knit community dedicated to excellent research and teaching. Clark University is located in Worcester, Massachusetts, the second-largest city in New England. It is a culturally rich city with a vibrant food scene and ample access to the outdoors, just an hour outside of Boston.

For more information about the McCullough lab and the Biology Department at Clark: erinlouisamccullough.wordpress.com clarku.edu/departments/biology/

Erin McCullough <ErMcCullough@clarku.edu>

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ColoradoStateU WildWheatDroughtGenomics

Evolutionary genomics for climate-resilient agriculture!

The Crop Adaptation Lab at Colorado State University is recruiting a graduate student (PhD or MSc) to identify and elucidate drought-adaptive alleles from wild wheats using evolutionary genomics. The student will develop hypotheses based on molecular physiology literature and bioinformatic analyses of wild-wheat introgression lines, then collaborate with ecophysiologists and breeders to test their hypotheses in drought field experiments.

The Crop Adaptation Lab uses evolutionary genomics to understand crop adaptation, and partners with breeding programs around to the world to develop stress-resilient crops (Morris et al. 2013 PNAS, Lasky et al. 2015 Science Advances, Bouchet et al. 2017 Genetics, Muleta et al. 2022 Science Advances). The knowledge this student creates will be directly applied to breeding of climate-resilient wheat varieties in the US and around world.

Enjoy an exciting interdisciplinary science culture, competitive stipend, and great quality of life on the front range of the Rocky Mountains.

Interested candidates should send a curriculum vitae, unofficial transcripts, and a statement of purpose to the email below.

Geoff Morris Associate Professor, Crop Quanti-

tative Genomics Colorado State University, Soil & Crop Sciences Plant Sciences Building, Fort Collins CO Geoff.Morris@colostate.edu | 312-909-1330 www.cropadaptation.org | www.gohy.org

Geoff.Morris@colostate.edu

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GeorgeMasonU
SEAsiaAvianPopulationGenomics

The Evolutionary Genomics Lab (sites.google.com/view/gmuevogen) at George Mason University is recruiting an enthusiastic and well-qualified graduate student to conduct research that investigates the process and drivers of avian population divergence in Sundaland, a tropical hotspot with a dynamic geologic history. The student may study processes occurring at contact zones or biogeographic breaks, across islands previously connected by Pleistocene land bridges, or across larger spatial and deeper temporal scales involving populations that occur in Indochina and other biogeographic regions.

The student will have access to a new hDNA (historical DNA) laboratory, and cutting-edge genomic and computational facilities and expertise. The Lim lab fosters integrative and collaborative research, and students are interested in wide-variety research areas, such as phylogenomics, landscape genetics, captive population management and conservation genetics, sensory ecology, and interaction between pathogens and host microbiomes.

The student will join GMU's Biosciences - Biocomplexity and Evolutionary Biology PhD program (https://catalog.gmu.edu/colleges-schools/science/-systems-biology/biosciences-phd/). This is a vibrant program with many opportunities to interact with professors and peers interested in fundamental evolution and ecology questions, as well as applied topics such as conservation.

GMU has three main campuses in the greater Washington, DC area (Fairfax, Prince William and Arlington counties). The Lim Lab is located in the Science and Technology campus (Manassas, Virginia) and collaborates with GMU and outside researchers from NMNH, NZP, SCBI, USGS and other institutions. Mason is a highly diverse university with 49% of students from underrepresented groups and 37% considered first generation.

Required skills and expectations: * B.S. or M.S. in Evolution or Biology or a related field (e.g. Ecology) * Background and interest in ornithology and molecular genetics/phylogenetics/population genetics * Demonstrated writing skill * Committed to a collaborative and inclusive lab environment * Prior research experience * Interest in bioinformatics * Ability to conduct research independently

Preferred skills and experiences: * Experience with NGS * Experience with the command-line interface and coding in R, Python, etc * Experience with handling birds and museum specimens

For more information, please read about research in the lab. Before applying to the graduate program, please send your CV and a brief cover letter stating your background and interests to HC Lim (hlim22@gmu.edu). Questions are welcome, especially about potential research topics and how your interests may intersect with mine.

HC Lim, Ph.D. Assistant Professor Biology Department Colgan Hall 409 George Mason University Manassas, VA 20110

Haw Chuan Lim <hlim22@gmu.edu>

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ImperialC London
InsectEcolEvolution

Imperial College London PhD opportunity to study insect ecology and evolution.

The Gill research group (https://www.imperial.ac.uk/-people/r.gill) is looking for a candidate to put forward to the President's PhD scholarship (https:/-/www.imperial.ac.uk/study/pg/fees-and-funding/-scholarships/presidents-phd-scholarships/).

This is a competitive process in which the student will put forward a personal statement and research proposal and offers will be based on the quality of the student and proposal.

We will look to support the students in this application, and have potential projects already outlined which fall under any one of the following three themes:

1. plant-pollinator responses to climate change (desk and/or field based) 2. leveraging entomological museum specimens to understand trait responses to environmental change (desk and/or lab based) 3. quantifying pesticide and climate interactions on bee molecular and behavioural responses (lab based) 4. adaptive benefits of ant colony size in coping with varying thermal environments (lab and field based)

If interested, please email Richard Gill (r.gill@imperial.ac.uk) with your CV, the theme(s) that grab your attention, and any additional information before 28th November.

Based on the competitiveness of the CV and information provided in the email, I will then contact the preferred candidate.

Kind Regards,

Dr Richard Gill Dept. Life Sciences Silwood Park Campus Imperial College London, UK

"Gill, Richard J" <r.gill@imperial.ac.uk>

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LouisianaStateU MicrobialEvolution

Ph.D. Graduate Assistantship: Microbial Ecology and Evolution, Tan Lab, Department of Biological Sciences, Louisiana State University

We are looking for one highly motivated Ph.D. student who is interested in basic or applied research in Microbial Ecology and Evolution starting in Fall 2023. Recent research topics of our lab include eco-evolutionary dynamics, plant-microbiome symbiosis, and ecological impacts of novel pollutants. We are currently using microbial communities in freshwater and associated with aquatic plants, such as duckweed, to explore ecological and evolutionary mechanisms that direct microbial community assembly, ecosystem functions, and stress response.

Applicants from various backgrounds with a strong interest in ecology, evolution, environmental science, microbiology, and/or plant biology are encouraged to apply. Quantitative and bioinformatics skills are preferred, but not required. Students can choose to work on the lab's current projects or develop their own research projects. Students will be supported by fellowships, research, and teaching assistantships. We will no longer require a GRE

score as of Fall 2020. The deadline for applications is January 3, 2023.

If you are interested in applying, please contact Dr. Jiaqi Tan with your CV, unofficial transcripts, and statement of purpose.

Jiaqi Tan jtan7@lsu.edu https://www.lsu.edu/science/-biosci/faculty-and-staff/faculty-pages/tan.php　Jiaqi Tan <jtan7@lsu.edu>

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MichiganTech PlantEvolution

Graduate Student Opportunities in Plant Ecology and Evolutionary Biology

Two to three graduate student opportunities are available to join my lab (Erika Hersch-Green) in the Department of Biological Sciences at Michigan Tech in Houghton, MI. Starting date is flexible but ideally student(s) will join the lab group in Spring 2023 as research technicians to become familiar with the group/projects and to engage in a fun, productive field season!

Research Group and Project Details:

§Our research group seeks to better understand the factors that influence how plants interact with their abiotic and biotic environments and the ecological and evolutionary responses of these interactions. Particular research foci include - climate change biology, genome size/polyploidy, hybridization, invasive species biology and species interactions (fungal antagonists and mutualists, herbivores, pollinators).

§For these openings - students will work as part of a team of students, scientists, teachers, and video media specialists on research examining whether and how nutrient availabilities and/or disturbances affect plants differently based upon their genome sizes and whether this contributes to the structuring of biodiversity patterns from the molecular (genomic and transcriptomic) and functional attributes of organisms to multispecies assemblages.

§Student(s) will be expected to develop their own research questions within this general framework based upon their own interests but should reach out to me to learn more about opportunities - as there are several projects that we anticipate starting that could serve as a MS project (e.g., a transcriptome project) and/or 1-2

chapters of a PhD project. Field work can be done locally (https://youtu.be/H6MtEnAIyi0) and/or at other collaborative sites (see: https://nutnet.org/home OR https://dragnetglobal.weebly.com/)

§Funding (including tuition) is available for full support from an NSF CAREER grant.

Qualifications and Application Details:

§Candidates must have prior work experience in a field setting or with molecular/transcriptome work, and be able to work well independently and as part of a team, and have or be able to obtain a US driver's license upon starting. PhD candidates must have a MS in the fields of ecology or evolutionary biology or a related discipline.

§Desired qualifications include a good quantitative/statistics background and strong (demonstrable) English scientific writing skills. Students will be trained in scientific teaching and communication skills and will have the opportunity to work with G6-12 and undergraduate students. Therefore, we are also looking for a student who is interested in community outreach.

§All members of our group are committed to promoting diversity, equity, and inclusion and the successful candidate will be expected to commit to this approach.

§Qualified and interested candidates should email Dr. Erika Hersch-Green (eherschg@mtu.edu) to express interest. In this email: include an updated CV and a statement of interest describing what (1) what position you are applying for (MS or PhD), (2) what area(s) of research you are most interested in exploring and (3) what previous and related skills/experience you have. I will then contact candidates for further discussion - at which time a formal application process will be discussed. Review of interested candidates will start immediately and close when filled.

Erika Hersch-Green, Associate Professor Department of Biological Sciences 740 DOW Building Michigan Technological University 1400 Townsend Drive Houghton, MI 49931 Office: 906-487-3351 Fax: 906-487-3167 Email: eherschg@mtu.edu

Erika Hersch-Green <eherschg@mtu.edu>

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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

Ma-tre de conf-rences

Institut Syst-matique, Evolution, Biodiversit- (ISYEB) Mus-um national d'Histoire naturelle UMR 7205, MNHN, CNRS, Sorbonne Universit-, 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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NorthernIllinoisU ParasiteEvolution

The Koop lab at Northern Illinois University is recruiting PhD graduate students for Fall 2023 interested in studying parasite evolution. Research in the lab aims to understand the ecological and evolutionary drivers of successful parasite invasions. We use field and lab-based techniques to study two unique, but complimentary systems and our work crosses disciplines including evolutionary biology, invasion biology, population genetics, and conservation biology.

There are opportunities for PhD students to study an invasive parasitic fly affecting Darwin's finches in the

Galapagos Islands. While this opportunity is contingent on funding, we have several ongoing projects aimed at identifying the source of the invasion, understanding current population structure, and examining the selective forces acting on populations of flies across the archipelago. The Galapagos Islands are an incredible place to work and have a rich history of informing our understanding of evolution.

We also have opportunities for PhD students interested in studying an invasive freshwater snail in the Great Lakes and Upper Mississippi River that acts as a host to several species of trematodes. As part of their life cycle, the trematodes infect waterfowl, often causing high morbidity and mortality. Ongoing projects with this system include assessing the invasion pathway history of both the snail and trematode species, understanding the role of local adaptation in determining virulence across a large geographic landscape, and examining sublethal effects of trematode infections on waterfowl. This system is highly accessible and offers an incredible opportunity to explore diverse ecological and evolutionary questions related to epidemiology, behavior, genetics, and species interactions.

Students will have the choice to work on any number of ongoing projects in the lab, and are encouraged to develop their own projects and research interests as well. Interested applicants are encouraged to check out the lab website for further information (jennifer-koop.com). Inquiries should be directed to Dr. Jennifer Koop (jkoop@niu.edu) and should include your CV and a brief description of your research experience and interests.

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. Recently, NIU was nationally recognized as a top college for diversity and LGBTQ+ students, and has been named one of the Great Colleges to Work For 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. The proximity of DeKalb to Chicago provides easy access to Chicago's research and technology corridor, the arts, and extensive nature preserves and parks. You can find out more about the department and the university at niu.edu/biology.

Jennifer Koop, Ph.D. Assistant Professor Department of Biological Sciences Northern Illinois University 1425 W. Lincoln Hwy De Kalb, IL 60115 jkoop@niu.edu https://-/jenniferkoop.com   Jennifer Koop <jkoop@niu.edu>

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Nottingham SticklebackMicrobiome

Dear All

We have a competitively funded PhD position available through the NERC Envision Doctoral Training Programme (https://www.envision-dtp.org/projects/) on The effect of environmental metals on the spread of antimicrobial resistance genes in the stickleback skin microbiome

Antimicrobial resistance (AMR) is a major threat to humans, animals, and our environment. Often associated with overuse of antibiotics in human and livestock dominated environments, its wider environmental occurrence is poorly understood. Emerging evidence suggests that AMR genes (ARGs) are frequently identified in commensal organisms, such as members of host-associated and environmental microbiomes. To effectively combat AMR, we need to understand how environmental variation encourages the spread of ARGs between bacteria (i.e., horizontal gene transfer (HGT)). It has shown that resistance to metals (e.g., copper, zinc, lead etc.) and AMR are often co-selected for in bacterial genomes, and that they directly correlate with environmental metal levels (Pal C et al 2017 Adv Micro Physio).

Three-spined stickleback are a well-studied model organism native to fresh and oceanic northern waters. While a variety of environmental factors have been associated with the composition of their gut microbiome (Rennison et al 2019 Proc Royal Soc B), the skin microbiome remains under-explored. The skin of fish, a mucus membrane in direct contact with the environment, is an important mechanism in infection prevention (Reverter et al 2018 Fish Sahul).

This project asks whether environmental variation in metal concentrations on the island of North Uist, Scotland leads to increased presence, abundance, and spread (via HGT) of ARGs in stickleback skin microbiomes. To answer this question, we will: * sequence the skin microbiome (and water to determine background bacterial contamination (Krotman et al. 2020 Microbiome)) of stickleback populations, controlling for genotype/environmental differences * culture the microbiome

and determine AMR bacteria * in the Nottingham aquariums, colonize gnotobiotic (i.e., germ- free) fish with a skin microbiome from low- vs. high-metal environments; longitudinally sample the skin microbiome to identify new HGT events

Applicants should have an interest in ecology, microbiology, and bioinformatics. They should hold a minimum of a UK Honours degree at 2.1 or equivalent in a biological or environmental subject. Candidates with additional (e.g., Masters) qualifications will be looked on favourably. Bioinformatic or computational experience would be an asset but not a requirement. A driving licence, experience of remote fieldwork and SCUBA/snorkelling would be valuable.

Further reading:

Magalhaes IS et al. The ecology of an adaptive radiation of three-spined stickleback from North Uist, Scotland. 2016. Mol Ecol. 25(17), 4319-36.

Krotman Y et al. Dissecting the factors shaping fish skin microbiomes in a heterogeneous inland water system. 2020 Microbiome 8(9).

Whelan FJ et al. Culture-enriched metagenomic sequencing enables in-depth profiling of the cystic fibrosis lung microbiota. 2020 Nat Microbiol 5(2), 379-90.

Milligan-Myhre K et al. Innate immune responses to gut microbiota differ between oceanic and freshwater three-spine stickleback populations. 2016 Dis Model Mech 9(2), 187-98.

For further details please contact Fiona Whelan, fiona.whelan@nottingham.ac.uk.

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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programs in mathematics at SFU.

We are establishing a cohort of graduate students who will work and learn together, gain state-of-the-art training in the methods and interdisciplinary research skills in the group, and develop their own research paths. Students will join a vibrant and diverse research group with interests in genomic epidemiology, mathematical models in evolution, phylodynamics, and infectious disease modelling.

Our research interests range from fundamental questions about how and why pathogens evolve the way they do to applied work in collaboration with public health institutions on topics like COVID-19 transmission and the analysis of viral and bacterial genomes. Our research inspires new mathematical methods and tools, and new ways to analyze and interpret genomic data. We use these new methods to generate insights into how pathogens evolve and spread, in addition to more fundamental research on evolution.

FUNDING MAGPIE Studentship recipients will receive competitive graduate funding, anticipated to be in the range of $35-$45K annually, including a reduced teaching load, as well as expectations of substantial research contributions.

APPLICANTS Applicants should have strong undergraduate backgrounds in mathematics or related subjects, experience with programming, interest in infectious disease and evolution, and a commitment to their own intellectual curiosity and how it can lead to an impact on our world.

INFORMATION For more information, please see the MAGPIE website at www.sfu.ca/magpie, and email ccolijn@sfu.ca.

APPLY TO SFU MATHEMATICS GRADUATE SCHOOL To apply, visit www.sfu.ca/gradstudies/apply.html Please mention the MAGPIE group and this cohort opportunity in your application.

Ben Ashby <benashbyevo@gmail.com>

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SimonFraserU InfectiousDiseaseModelling

The MAGPIE (MAthematics, Genomics and Prediction in Infection and Evolution) group at Simon Fraser University (SFU) is seeking applicants for dedicated MAGPIE Studentships, situated in the MSc and PhD

Stuttgart Malacology

We are looking for a highly motivated PhD candidate to contribute to our project "Snails of New Caledonia".

Due to its strong and long isolation, the fauna of New Caledonia is characterised by an extremely high level of endemism. At the same time, a high diversity with microendemisms evolved in many groups as a result of the colonisation history and effects of orography, different soil types and climate. The PhD project will focus on New Caledonian spring and groundwater-dwellings gastropods. Based on material of probably about 50 mostly undescribed species of the family Tateidae, questions towards biogeography, species evolution and diversity patterns should be investigated.

This research takes place in the Zoology department of the State Museum of Natural History in Stuttgart (SMNS). The Zoology department is focused on systematics and biogeography of species from tropical biodiversity hotspots and islands. The State Museum of Natural History in Stuttgart (SMNS) with its two locations Museum am Lowentor and Schloss Rosenstein is one of the largest natural history museums in Germany with more than 160 employees and sees itself as a future-oriented research and educational institution. Employment will be at the SMNS, Stuttgart, the project will be a cooperation with the Musï¿$\frac{1}{2}$um national d'Histoire naturelle Paris and the University of Greifswald. The successful applicant is expected to enroll in a doctoral program at University of Greifswald to obtain the appropriate degree.

Requirements: - a master's/ diploma or equivalent degree in biology or related disciplines with a focus on zoological topics, preferably malacology or/and systematics, biogeography or population genetics. - Knowledge and experience in genetic methods used in systematics (lab and data analyses, classical methods as well as NGS) - experience in field work - ability to work independently and being a team player - good command of English and computer skills are desired, basics in French welcome - Experience with or willingness to learn and conduct additional methods used in systematics are expected.

We offer: - the opportunity to pursue your academic career in an internationally renowned research museum with excellent facilities - intensive academic and personal mentoring in the course of the Phd-project - exciting research projects in an international and multidisciplinary environment - an attractive workplace in the centre of Stuttgart - flexible work time for research - benefits from occupational health management - professional and personal development opportunities through training programs

Salary corresponds to the German civil service salary scale E13 TV-L, 50%. The position should be filled as soon as possible, preferably by January 1, 2023 and is funded for 3 years. Please submit your electronic application exclusively online (in one file, max 5 MB), containing a cover letter, CV and relevant certificates to doktorand.zoo@smns-bw.de prior to November 27, 2022. Job interviews are scheduled for December 12, 2022. For further information, please contact Dr. Ira Richling, Tel. 0049-(0)711/8936-267, ira.richling@smns-bw.de .

We welcome applications in both German and English. The SMNS strives to increase the percentage of women in areas where women are underrepresented and therefore strongly encourages applications from qualified women. Individuals with disabilities will be given priority for employment if equally qualified.

Further information on data protection law for applicants can be found on: https://-/www.naturkundemuseum-bw.de/en/jobs/-detailansicht/phd-position-m-f-d-in-malacology-at-the-state-museum-of-natural-history-in-stuttgart "Pereira, Ricardo" <ricardo.pereira@smns-bw.de>

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UBath SocialEvolution

Fully funded PhD position open to students worldwide

Evolution of social signal diversity

https://www.findaphd.com/phds/project/nerc-gw4-dtp-phd-project-evolution-of-social-signal-diversity/-?p148391 Supervisory Team: Lead Supervisor: Jason Wolf, University of Bath, Milner Centre for Evolution Co-Supervisor: Bram Kuijper, University of Exeter, Centre for Ecology and Conservation

This project is aimed at understanding how loci, such as greenbeard recognition systems, evolve, with the goals of understanding the processes governing their level of polymorphism and their genic content. In many natural

systems, greenbeard loci are highly diverse and composed of multiple genes, so part of the overall goals are to explain these patterns, but with an eye towards more general evolutionary processes. The project aims are hierarchical and flexible, proving many opportunities for student led avenues of inquiry around this primary problem. The project will build from the development of theoretical models to understand the fundamental processes shaping greenbeard (and conceptually related) systems. Some of the primary predictions from this theory can be tested using computational approaches applied to existing datasets, with an aim of not only characterising the patterns of polymorphism observed in nature, but also in understanding why some types of variation are present but not others (i.e., not just measuring observed sequence variation, but trying to explain why that particular pattern of variation is present in nature).

Previous training in mathematics and modelling is useful, but is not essential. Students will be provided with appropriate specialised training as needed to accommodate students from a diversity of backgrounds.

Jason Wolf <jbw22@bath.ac.uk>

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UBologna eDNA ElasmobranchConservation

PhD position on "Elasmobranch biodiversity in a changing marine realm: new data and technologies sustaining species and habitat conservation" at the University of Bologna - deadline on Dec 14, 2022 at 11:59 PM

Dear all,

We would like to share the opportunity of the Ph.D. position "Elasmobranch biodiversity in a changing marine realm: new data and technologies sustaining species and habitat conservation" at the University of Bologna (38th cycle call for applications), under the "Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources" Program (FishMed-PhD).

The proposed position stems within the PNRR NBFC https://www.nbfc.it/ Spoke 2 "Solutions to reverse marine biodiversity loss and manage marine resources sustainably" and its Activity 5 "Develop innovative Multi-Omics based technologies to address emergent biodi-

versity threats". The foreseen research project aims to implement last-generation technologies for the collection of Marine Omics data, their analysis and interpretation to implement Scalable, Fast and Cost-effective (SFC) response actions to Emergent Biodiversity threats. The open Ph.D. position in detail will deal with the application of environmental DNA (eDNA) methodologies to the conservation of elasmobranch marine species. The availability of historical data series to be employed as a baseline, the collections and generation of new and refined sources of information, such as the "omic" data, and the creation of integrated repositories are considered essential bricks for sustainable recovery plans. To epitomise this vision, the present Ph.D. Project will focus on the assessment of Mediterranean elasmobranchs (i.e., sharks and rays) by using eDNA metabarcoding. The key role of these species in maintaining the structure and functioning of food webs and thus sustainingmarine ecosystems (from deep-sea habitats to pelagic and coastal waters) makes them priority targets for conservation. The project will entail the full breadth of marine eDNA workflows, from technology-assisted sampling operations, to the curation of DNA reference libraries, highly optimised and automated laboratory procedure, and the application and development of new bioinformatic tools. Among the main expected results, it will be possible to i) identify and describe elasmobranch diversity hotspots, with a better understanding of habitat use, ii) detect rare species associated with different habitats iii) monitor the presence or absence of the most common ones and their associated estimates of abundance.

The Call is addressed to graduated MSc students AND to applicants who are yet to obtain their Second-Cycle Degree no later than February 28th, 2023 (admitted on condition).

Application deadline: Dec 14, 2022 at 11:59 PM

Doctoral programme start date: Mar 01, 2023

Please, find the link below for more details on the Call and on how to apply:

[ENG] https://www.unibo.it/en/teaching/phd/2022-2023/innovative-technologies-and-sustainable-use-of-mediterranean-sea-fishery-and-biological-resources-fishmed-phd [ITA] https://www.unibo.it/it/didattica/-dottorati/2022-2023/tecnologie-innovative-e-uso-sostenibile-delle-risorse-di-pesca-e-biologiche-del-mediterraneo-fishmed-phd For more information please contact:

alessia.cariani@unibo.it; alice.ferrari6@unibo.it

Hoping to reach your interest

We thank you for your kind attention

Alessia Cariani, Alice Ferrari

Alessia Cariani <alessia.cariani@unibo.it>

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UCalifornia Merced ForestEvolution

Seeking prospective forest ecology PhD student

The Moran lab (https://sites.google.com/site/-moranplantlab/) at the University of California Merced is recruiting graduate students for Fall 2023.

We use a combination of observational and experimental ecological data, genetic markers, and statistical and simulation modeling to address a variety of questions about plant population biology. Our particular focus is the forests of the Sierra Nevada, California and their responses to climate change.

We are looking to recruit a PhD student interested in the impacts of climate on forest tree seed production, dispersal, and seedling establishment. The student would design a thesis project related to the mission of the recently-funded NSF grant ?Continent-wide forest recruitment change: the interactions between climate, habitat, and consumers? Stipend and tuition funding is available through this grant for 3-4 semesters (1.5-2 school years) and 4-5 summers.

While the funded project is not explicitly evolutionary, focusing instead on population biology, students would be welcome to add an evolutionary component to their PhD thesis project if desired. For an example from the broader Mastif project, see Journe et al. 2022, Ecology Letters.

Desired qualifications include: - A strong interest in terrestrial plant ecology. - A Bachelor?s degree in a related field (eg. Biology, Environmental Science). A Master?s Degree is not required, but evidence of research experience during or after the Bachelor?s degree is highly desirable. - Career goals that include leading a research group and/or teaching at the university level. - A valid driver?s license (which would allow the student to reach field sites independently. A current vehicle suitable for fieldwork is NOT required, as 4WD vehicles can be rented if needed) - Experience with fieldwork in remote areas, including the ability to conduct vegetation surveys or tree measurements, and to locate plots with GPS, is highly desirable. - Experience with

mathematical modeling and/or statistical analysis in R is highly desirable. - Ability to identify tree species of the Western US is also desirable, but can be learned on the job.

The Moran lab is committed to maintaining and promoting a diverse and inclusive environment. We believe that science is for everyone, and research shows that scientific progress and creativity is improved by our multiple perspectives, backgrounds, and experiences. This view is fully supported by our university?s commitment to the values needed for Equity, Diversity, and Inclusion. (https://diversity.ucmerced.edu/values)

Interested students may apply through either the Environmental Systems (https://es.ucmerced.edu/-) or Quantitative and Systems Biology (https://-qsb.ucmerced.edu/) graduate groups, though ES is encouraged for the project in question. Accepted students will be supported (stipend + benefits + tuition) through a mixture of research assistantships (GSR) ? including the grant referenced above - teaching assistantships, and fellowships over the 5-6 years needed to complete a PhD. The final application deadline is January 15, 2022, but be sure to apply before December 15 to be considered for recruitment fellowships!

UC Merced is located in California?s central valley, ~2 hours from the Bay Area, Sacramento, and Yosemite National Park. We are a research university, the latest addition to the University of California system, and a Hispanic-Serving Institution. The student body is highly diverse, with 60% of students belonging to under-represented minority groups and 74% of under-graduates being the first in their family to go to college. (For more on Diversity, Equity, and Inclusion at UCM, see this recent report: https://diversity.ucmerced.edu/-sites/diversity.ucmerced.edu/files/documents/ay20-21_edi_annual_report_final_20210810-web.pdf). UC Merced also has a strong focus on sustainability both in research and teaching, and in campus practices. (For more, see the websites of the Office of Sustainability and the Sierra Nevada Research Institute). We provide equal opportunities to applicants for employment regardless of race, religion, ethnicity, gender identity or expression, sexual orientation, age, disability status, socioeconomic status, or citizenship and immigration status.

For more information about this position, please check out the Moran lab website (https://sites.google.com/-site/moranplantlab/home) or email Dr. Emily Moran at emoran5@ucmerced.edu.

Emily Moran <emoran5@ucmerced.edu>

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UCalifornia SanFrancisco EvolutionaryBiology

Are you an undergrad thinking about grad school in a biology-related field? Do you identify as a member of a historically excluded group in STEM, grow up in a disadvantaged background, or experience an ongoing disability? Come join our amazing PROPEL community! PROPEL is a 1-2 year post-baccalaureate training program that integrates a paid research experience ($49k+benefits/year) with educational and career development activities to build a sense of scientific identity and community among our diverse scholars. http://-propel.ucsf.edu . We host our annual UCSF Virtual Matchmaking Event for Postbaccalaureate Scholars on Feb 1. Come meet 6+ UCSF faculty working in your areas of interest! Make a connection, and join us!! Register by Jan 6!! http://justice.ucsf.edu . New this year: we are now an official NIH PREP institution!! We will have a separate admissions process in the winter, but scholars who make a match during our event will be eligible.

All my best,

Ryan

Ryan D. Hernandez, Ph.D. Professor Department of Bioengineering and Therapeutic Sciences Co-Vice Dean for Diversity, Equity, and Inclusion, School of Pharmacy Co-Director BMI: Biological and Medical Informatics Graduate Program Co-Director PROPEL: Post-baccalaureate Research Opportunities to Promote Equity in Learning Co-Director UCSF PREP: Post-baccalaureate Research Education Program Director UCSF Initiative for Digital Transformation University of California San Francisco UCSF MC 2530 Byers Hall Room 508E 1700 4th Street San Francisco, CA 94143

Phone: (415) 514-9813 Email: ryan.hernandez@ucsf.edu Website: http://hernandezlab.ucsf.edu/ "Hernandez, Ryan" <Ryan.Hernandez@ucsf.edu>

UEastAnglia RedFoxPopulationGenomics

A PhD position is available on the population genomics and evolutionary history of the red fox. The position will be based at the School of Biological Sciences at the University of East Anglia (UEA) in Norwich, UK, as part of the 4-year ARIES doctoral training program, and supervised by Dr. Anders Bergstri¿$\frac{1}{2}$m.

Scientific background: Population genomics can reveal the evolutionary processes that underlie the history and diversity of a species. Many studies have been done on endangered and extinct species, but little attention has been given to the flip side of the coin: thriving species. To understand what sets successful species apart from less successful ones, we need to study the full spectrum of evolutionary trajectories. One species that is doing exceptionally well is the red fox (Vulpes vulpes). It is the land mammal with the largest natural distribution and occupies a wide range of habitats, from the deserts of the Arabian peninsula to the tundra of the North American arctic, and even thrives in urban environments.

Research methodology: This project will use whole-genome sequencing of previously collected red fox DNA samples from across the globe, and perform population genetics analyses to address questions on their diversity and evolutionary history, including: - Is the success of the fox driven by genetic adaptation ?¿' do the genomes of foxes living in different environments display evidence of local adaptation, or are foxes instead adapting through behavioural versatility? - What is the time depth of genetic diversification in the species ??" did foxes in different parts of the world diverge genetically a long time ago, or is current diversity the result of recent expansion? - What factors best explain the shape of genetic relationships ?¿' Ice Age climate changes, mountains, deserts, human societies, deliberate human translocation?

Training: The student will join the thriving Organisms and Environment theme at UEA. They will gain broad skills in genomics, bioinformatics, population genetic theory and cutting-edge analyses of genetic structure, demographic histories, and natural selection. There are also prospects for ancient DNA analyses, comparisons to data from other species (e.g. grey wolf), and integration of environmental and climate data. They

will take part in journal clubs and seminars, present at local and international conferences, interact with multi-disciplinary collaborators and develop skills in critical thinking, scientific writing and communication.

Application deadline: 11 January 2023. Start date: October 2023. For more information, including on how to apply, see the UEA website: https://www.uea.ac.uk/-course/phd-doctorate/evolutionary-genomics-of-the-thriving-red-fox-bergstrom-ubio23aries   For informal inquiries please contact Anders Bergstrï¿ $\frac{1}{2}$m: anders.bergstrom@gmail.com

"anders.bergstrom@gmail.com"
<anders.bergstrom@gmail.com>

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UExeter PaternalEffectsInBirds

4-year PhD position at the University of Exeter Cornwall, UK to work on

Non-genetic paternal effects on offspring reproduction and health: mechanisms and evolutionary consequences in a bird model system

Supervised by Barbara Tschirren, Bram Kuijper &Chris Bass, with UK and international project partners.

Evidence is accumulating that a father's condition can be transferred non-genetically to the next generation and affect offspring development, performance and health. To date, the mechanisms underlying such paternal condition-transfer effects remain poorly understood and their evolutionary consequences are largely unexplored. In this project you will use a bird model system (Japanese quail,Coturnix japonica), in which paternal condition-transfer effects on offspring reproductive performance have previously been demonstrated, to identify the origin, function and evolutionary consequences of non-genetic paternal effects using a highly multidisciplinary and integrative approach.

Using in vivo experiments, combined with state-of-the-art -omics and physiological techniques, you will test how favourable or harsh early life condition sexperienced by males affect their sperm and seminal fluid composition,and how different components of the male's ejaculate mediate cross-generational effects on the daughters' reproductive performance and health. Experimental in vivo and molecular work will be complemented by

evolutionary modelling to quantify the role of paternal condition-transfer effects in altering the response to selection, as well as the potential of experimental interventions to modify evolutionary trajectories of reproductive traits under selection through paternal effects. The project will provide fundamental novel insights into the mechanisms underlying paternal condition-transfer effects across generations and the potential of early life interventions to alter evolutionary trajectories, both directly relevant tithe management of animal health and performance as well as our understanding of the reproductive lives of birds.

During the project you will obtain interdisciplinary training in a variety of state-of-the-art approaches and techniques that are highly sought-after by employers in and outside of academia,including experimental in vivo skills,molecular techniques, bioinformatics, and mathematical modelling. You will be based in a thriving, friendly and inclusive department in beautiful Cornwall, UK and benefit from the complementary expertise of a highly multidisciplinary supervisory team, and UK and international collaborators.

Apply here:https://www.exeter.ac.uk/study/funding/-award/?id=4563 Both UK and international students are eligible. Deadline: 05three 2022

For more information, please contact BarbaraTschirrenb.tschirren@exeter.ac.uk

Dr Barbara Ts chirred Senior Lecturer in Evolutionary Ecology University of Exeter Centre for Ecology and Conservation Penryn Campus, Stella Turk building Penryn, Cornwall, TR10 9FE, UnitedKingdom

Email: b.tschirren@exeter.ac.uk Phone: +44 (0)1326 214388   www.exeter.ac.uk   "Tschirren, Barbara" <B.Tschirren@exeter.ac.uk>

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UExeter Two MonitoringMArineVertebrate

Dear Evoldir community,

We have two exciting PhD positions on offer that focus on the molecular monitoring of marine vertebrates using eDNA, based at the University of Exeter (Streatham Campus), Devon, United Kingdom. Closing dates for these positions are the first week of January 2023, for a

starting date of September 2023.

Both candidates will be based at the Living Systems Institute, University of Exeter, a centre of interdisciplinary research at Exeter that bridges across Biosciences, Maths, Physics and beyond.

Successful students will have access to existing eDNA datasets and may have the opportunity to work in the field. We would encourage those with an aptitude and interest in bioinformatics, phylogenetics, oceanography and marine conservation to apply. Experience in molecular laboratory and field work are desirable but not essential.

Position 1: Molecular monitoring of marine vertebrates across changing oceans with eDNA

China Scholarship Council PhD studentships for 2023 Entry based at the University of Exeter, United Kingdom.

Application deadline: midday UK time 4th January 2023.

For more details on how to apply: http://www.exeter.ac.uk/pg-research/csc-scholarships/-facultyofhealthandlifesciences/ The project is listed under Ocean Sciences.

This PhD studentship is open to Chinese nationals only. We are seeking a highly motivated PhD candidate for an exciting collaboration between the University of Exeter (Dr Adam Monier and Dr Kirsten Thompson) and Greenpeace Research Laboratories (Exeter; Dr Kirsten Thompson and others). Join a dynamic group of bioscientists, geneticists and cetacean biologists at Exeter Streatham Campus in the southwest of the United Kingdom. The successful candidate will be based at the Living Systems Institute, Exeter, and will have access to existing data from temperate and tropical oceans and the potential opportunity to work in the field. We would encourage those with an aptitude and interest in bioinformatics, phylogenetic, oceanography and marine conservation to apply. Experience in molecular laboratory and field work are desirable but not essential.

Position two: High-resolution monitoring of marine vertebrates in changing polar oceans with eDNA,

NERC GW4+ DTP PhD studentship for 2023 Entry, based at the University of Exeter, United Kingdom. Ref: 4589

Application deadline: 9th January 2023

Join a dynamic group of bioscientists, geneticists and cetacean biologists at Exeter in the southwest of the UK. We are seeking a highly motivated PhD candidate for an exciting collaboration between the University of Exeter

(Dr Adam Monier and Dr Kirsten Thompson), British Antarctic Survey (Dr Jennifer Jackson) and Greenpeace Research Laboratories (Exeter; Dr Kirsten Thompson).

This studentship is open to all nationalities and will be awarded according to the NERC GW4+ DTP process. Full information on the project and how to apply: https://www.exeter.ac.uk/study/funding/award/-?id=4589 Project Background: Climate change is particularly pronounced in the polar regions, precipitating widespread range shifts, invasions of new species and losses of others. These changes present significant challenges for conservation of marine vertebrates; thus a suite of biomonitoring strategies is required to help manage marine resources and monitor biodiversity. Furthermore, polar regions provide extreme and expensive field conditions for researchers with many understudied species and a dearth of knowledge on ecosystem functioning.

Monitoring methods such as visual survey, bioacoustics, and biologging are spatially limited and expensive, often requiring extensive ship time and expert knowledge. In many cases, they also do not provide high-resolution taxonomic classification and are not effective in evaluating taxonomically cryptic, elusive or undescribed species. Environmental DNA (eDNA) monitoring is one strategy that could provide a rapid, non-invasive tool to characterise polar vertebrate biodiversity. Routinely used in, for example, freshwater ecology, eDNA is currently an underdeveloped method for monitoring marine animals. Current eDNA-based methods focus on cataloguing taxa, but rarely generate information on intraspecific community diversity or resilience, nor are they developed for systematic monitoring.

Recent expeditions by Greenpeace, in collaboration with SPYGEN (www.spygen.com) and the University of Montpellier (France), collected 100+ samples from polar regions generating mitochondrial 12S sequence datasets for mammals, teleosts and elasmobranchs. The student will analyse these samples and generate bioinformatic pipelines and protocols that will help to provide the next step in eDNA monitoring for marine ecosystem characterisation and conservation.

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UFlorida BlackFootedFerretConservationGenomics

The Molecular Ecology lab of Drs. Samantha Wisely and James Austin is seeking highly motivated and qualified candidates for a Ph.D. assistantship at the Department of Wildlife Ecology and Conservation at the University of Florida. The goal is to build a research project examining the genomic consequences of contrasting management strategies for black-footed ferrets. This Ph.D. project will center around the genomic assessment of 20+ years of reintroductions and augmentations of wild black-footed ferret populations. The candidate will be expected to develop a dissertation using a robust longitudinal dataset (genetic and partial pedigree information) and existing genomic reference data. There will also be opportunities for fieldwork at the population sites. Candidate's qualifications:

* Ideally, an M.S. in a related field (e.g., bioinformatics, molecular ecology, ecology, conservation biology) * Minimally, an undergraduate degree in biology or genetics with demonstrated potential for success at the Ph.D. level. * Interest in applying genomic tools to the study of ecological and conservation-related questions. * Ability to work in wet- and dry-lab and, if interested, strenuous field conditions (e.g., long nights searching for ferrets) * Demonstrated experience with general bioinformatics programming and statistical data analysis in R. * experience in NGS DNA-sequencing / sequence analyses in R or Python * Demonstrated research productivity in terms of outputs (e.g., peer-reviewed publications, presentations, digital content)

This is a fully-funded Ph.D. position, and the successful candidate will be offered a competitive annual stipend, comprehensive health insurance, and a full tuition waiver.

About UF:

The University of Florida is the state's preeminent institution and one of the U.S.'s most highly regarded public research universities, with a distinctly international and interdisciplinary character. Interested candidates can read more about the graduate opportunities at UF here: http://graduateschool.ufl.edu/prospective-students/explore-uf/. For more information about our labs please visit the Departmental home page: https://wec.ifas.ufl.edu/people/ Instructions to Applicants:

If you are interested in joining our team, please send your application, including (1) a letter of motivation with a brief outline of career goals and research experience, (2) a detailed CV/resume, and (3) the contact information of a minimum of two references. Please send these documents as a single pdf file (UFferret_surname_firstname.pdf) by Nov. 22, 2022, to Dr. James Austin (austinj@ufl.edu). The start date is expected to be late August 2023. Do not hesitate to contact Prof. Dr. Austin and/or Dr. Samantha Wisely (wisely@ufl.edu) for any questions.

"Austin,James D" <austinj@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 / phenomics / epigenomics, 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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UFlorida SynBio EvoBio MachineLearning

The Zhou lab in the department of biology at the University of Florida is seeking a highly motivated and collaborative PhD student with interests in synthetic/evolutionary biology and machine learning.

Research in the Zhou lab is centered around the fundamental biological question of how genotype determines phenotype. For example, how mutations in the amino acid sequence of a protein affect the protein function. Understanding the genotype-phenotype map is critical to evolutionary biology as well as many other fields including medicine and bioengineering. Our lab tackles this problem through a combination of modern machine learning technology and high-throughput wet lab experiments. Our lab is part of a large campus-wide initiative to integrate AI-based approaches into research and teaching.

This PhD position is sponsored by the Biology department graduate program at UF and will be funded through a combination of RA/TAships.

Project overview

A fundamental question in biology is how the genotypes of an organism determine its various phenotypes. For example, the amino acid sequence of a protein determines its 3D structures, which in turn defines its function. Any mutations in the sequence can lead to changes in the function of the protein.

This mapping from sequence to phenotype and to fitness is critical to evolutionary biology as it determines the tempo and mode of adaptive evolution. It also has many real-world applications, including predicting the evolution of antimicrobial resistance, predicting disease phenotype from genomics data, and engineering highly optimized biomolecules.

The overarching goal of the lab is to integrate machine learning and high-throughput experiments to reveal both local and global structures of the fitness landscapes of proteins and complex traits and extract general principles of adaptive evolution.

We are developing various machine learning methods

for experimental (labeled) as well as evolutionary (unlabeled) data to interrogate the structure of genotype-phenotype maps. Current research projects encompass supervised methods such as Gaussian processes and unsupervised methods including language and generative models.

We also use wet lab experiments to empirically measure the genotype-phenotype map for proteins as well as complex traits. This project will apply massively parallel reporting assays to budding yeast and have a special focus on how mutations interact to affect fitness.

Job description

This PhD position will focus on understanding the genotype-phenotype mapping through high-throughput experiments on budding yeast. The PhD student will work to establish a workflow of high-throughput experimental assays. The workflow includes cell culture, library preparation, and next-generation sequencing. The student's dissertation will be developed around this workflow and focus on important biological questions about genotype-phenotype maps.

The student will also receive substantial assistance from the machine learning projects in the lab. And depending on the student's interests, the machine learning components in the dissertation can range from simple data analyses to being the main focus of one or two chapters.

Qualifications

The successful candidate should be enthusiastic, collegial, and show wet lab and/or quantitative skills evidenced by coursework or previous projects. Desirable skills include: basic molecular biology techniques including PCR, cloning, cell culture; knowledge of evolutionary biology; understanding of yeast genetics; bioinformatics; mathematics; statistics and programming.

Note that these skills are desirable but not required and our lab will provide many training opportunities. Please do not be discouraged if you do not check all the boxes but are eager to learn these skills. Our work involves many collaborations in and out of campus, so a collaborative attitude and communication skills are very important.

It will be helpful to think about the following questions before you apply:

Are you interested in studying genotype-phenotype maps?

Do you find our research exciting and what do you like about our work?

Why is our lab a good fit for you?

Are you interested in using machine learning to answer questions in biology?

What makes you a strong candidate?

If you are interested, please send your CV, along with a brief informal statement about your background and why you are interested in joining the lab to me (Juannan Zhou) at: juannanzhou@ufl.edu

More information about research in the lab can be found on our website: jzhoulab.org

The application deadline is December 1. And more information about the application process can be found on the department website: https://biology.ufl.edu/-graduate-programs/application/ . "Zhou, Juannan" <juannanzhou@ufl.edu>

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UFrankfurt FreshwaterBiodiversity

The Senckenberg Gesellschaft fi¿½r Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with more than 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (SBiK-F) explores the interactions between biodiversity, climate, and society.

The Senckenberg Biodiversity and Climate Research Centre (S-BiK-F) invite applications for a PhD position (m/f/d) "Biotic interactions and environmental niches understanding species persistence in a polluted world" (part time, 65 %)

The last few decades have been characterized by strong community turnover in freshwater ecosystems, with invasive species often displacing native species. At the same time, anthropogenic pressures (especially chemical pollution) are increasing. Invasive species seem to be able to withstand these conditions better than many native species. So far, the role of species interactions on the resilience of individual species is poorly understood. For example, the absence of adapted predators or parasites may be a competitive advantage of invasive species over native species.

In this PhD project, we would like to investigate the sensitivity of native and invasive amphipod species to chemical pollutants with particular reference to co-evolved parasites and their relevance in polluted waters. We

will genetically characterize host and parasite species and examine the host-parasite relationship for seasonal effects like temperature regimes. The information obtained can then be used to make projections for the future by means of niche modelling.

The PhD position includes a diverse combination of field work, experimental work and laboratory work, combining ecological questions with aspects of parasitology, ecotoxicology and niche modelling. We offer a creative, appreciative working environment with a high degree of personal responsibility in a motivated interdisciplinary team.

Your profile: We are looking for a highly motivated, enthusiastic PhD student (m/f/d) interested in biodiversity conservation, stream ecology, ecological interactions, molecular biodiversity and/or data analysis.

Applicants should hold a M.Sc. (or equivalent) in ecology, biology, environmental sciences or related disciplines. Priority will be given to applicants with profound knowledge in at least one of the following disciplines: ecological statistics (using R), ecotoxicology, molecular species identification (e.g., COI barcoding) and/or geographic information systems (GIS), ideally with experiences in field- and labwork and/or modelling. Applicants are expected to be able to work independently, be highly self-motivated, and eager to learn and apply new methods. Very good English skills, oral as well as written are required. German language skills are helpful but not mandatory.

Place of employment: Frankfurt am Main Working hours: Part time (65%) Type of contract: 3 years, starting as soon as possible Salary: according to the German collective agreement TV-H (pay grade E 13) 65 %

What is awaiting you? The Senckenberg Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft fï¿$\frac{1}{2}$r Naturforschung.

Salary and benefits are according to a part-time public service position in Germany (TV-H E 13, 65%). The position is a 36-months fixed-term post, starting as soon as possible.

How to apply: Please send your application (in english or in german), mentioning the reference of this job offer (ref. #11-22017) until November 31st 2022 (deadline), including a brief cover letter detailing your research interests and experience (1 page), CV and copies of your certificates, transcripts and grades (attachment in a single pdf document) by e-mail to recruiting@senckenberg.de or ap-ply directly on our homepage via the online application form.

For any questions please contact Dr. Sarah Cunze (cunze@bio.uni-frankfurt.de), Dr. Jonas Jourdan (jourdan@bio.uni-frankfurt.de) or Prof. Dr. Sven Klimpel (sven.klimpel@senckenberg.de).

Dr. Jonas Jourdan

Department Aquatic Ecotoxicology, Faculty Biological Sciences Goethe University Frankfurt Biologicum | room 2.320 | Max-von-Laue-Str. 13

60438 Frankfurt am Main | Germany

Tel +49 (0)69 798 42149 E-Mail: jourdan@bio.uni-frankfurt.de http://www.ecotox.uni-frankfurt.de Jonas Jourdan <jourdan@bio.uni-frankfurt.de>

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UGeorgia EvolutionaryBiology

The University of Georgia is seeking graduate students to join a large community of ecology and evolutionary biology researchers through the Integrated Life Sciences (ILS) program.

Admission through the ILS program allows new graduate students to explore research across 14 participating Ph.D. graduate programs, including over 50 laboratories with diverse ecology and evolutionary biology interests. Over their first semester in the program, graduate students can choose rotations among laboratories from nearly all life science departments.

The application deadline for Fall 2023 admission to the ILS program is December 1, 2022. To learn more about the ILS program and research at the University of Georgia, please visit the website at:

http://ils.uga.edu Potential students are encouraged to explore the ecology and evolutionary biology research underway at UGA through the ILS program and to get in contact with faculty whose research they are interested in:

https://ils.uga.edu/faculty/by-interdisciplinary-groups/evolution-ecology-faculty/ Athens, Georgia is a vibrant college town and is consistently ranked one of the top places to live.

Please contact us with any questions.

Gaelen Burke Evolution and Ecology ILS Group Representative Associate Professor grburke@uga.edu

Gaelen R Burke <grburke@uga.edu>

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UGroningen EvolutionaryBiology

MEME Application Cohort 2023 open!

Please alert your students to this great opportunity!

MEME (Erasmus Mundus Master in Evolutionary Biology) is a two-year research oriented master program for talented and motivated students who are interested in understanding evolution in all its facets. It intends to provide an optimal preparation for subsequent doctoral studies and eventually a career in academic research.

The MEME program addresses the driving forces of evolution at all levels of organismal organization (from cells and individuals to populations and ecosystems), and allows students to study all kinds of organisms (microorganisms, plants, animals) in all kinds of habitats (marine as well as terrestrial) with a diversity of approaches (field, lab, theory). The focus of the program is not only on how evolution shaped life on our planet in the past, but also on how understanding the principles underlying evolution can provide new insights and help to cope with present-day challenges in a variety of fields, including ecology, epidemiology, physiology, immunology, genetics/genomics, bioinformatics, economics and the social sciences.

To offer a program of such broad scope, four European universities (University of Groningen, Netherlands; University of Montpellier, France; Ludwig Maximilians University of Munich, Germany; Uppsala University, Sweden), have joined forces with Harvard University (USA) and the University of Lausanne (Switzerland) as associate partners. Together, this consortium has put together an attractive multidisciplinary program that meets the highest standards. All students have to study at (at least) two partner universities, and they will receive a double degree from two partner universities they have attended.

Details on the program and the selection procedure can be found on www.evobio.eu . Starting date: 1 September 2023 Application Deadline: 15 January 2023

Questions about the contents of the program: Leo Beukeboom (l.w.beukeboom@rug.nl)

Questions about the requirements and the application procedure: MEME office (MEME@rug.nl)

MEME Office <meme@rug.nl>

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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, prospec-

tive 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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ULeicester EvolutionAgeing

Hi All,

I've a PhD available that may be of interest "Does diapause alter epigenetic ageing trajectory in insects?"

https://centa.ac.uk/studentship/does-diapause-alter-epigenetic-ageing-trajectory-in-insects/   Why individuals and species age so differently is an unanswered question in evolutionary biology. Ageing is the combination of DNA, cellular and organ damage leading to a decline in function and increased chance of dying. This project will combine two major themes in the study of ageing; epigenetic clocks and senescence plasticity.

Email me (ebm3@le.ac.uk) if you have any questions or would like to discuss further.

Take care

Eamonn

Prof. Eamonn Mallon Professor of Evolutionary Biology Associate Dean of Research for the College of Life Sciences Adrian Building Room 220 Department of Genetics and Genome Biology University of Leicester LE1 7RH

"Mallon, Eamonn B. (Prof.)" <ebm3@leicester.ac.uk>

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UMuenster EvolGenomicsHymenoptera

The Institute of Evolution and Biodiversity in the Faculty of Biology at the University of Mï¿$\frac{1}{2}$nster (WWU), Germany, is seeking to fill the position of a

PhD candidate Wissenschaftliche/r Mitarbeiter/in (salary level TV-L E 13, 75%) in "Recurrent genomic dynamics linked to parallel evolution of secondary phytophagy in Hymenoptera" with Dr Manuela Sann & Dr Mark Lammers

Project description This research project focuses on evolutionary processes that shaped the diversity of nutritional adaptations and genomic dynamics in phytophagous Hymenoptera. The phytophagous lifestyle is a key innovation in insects that has evolved in only one third of all insect orders. The evolution of phytophagy likely involves fundamental behavioural and morphological changes accompanied by chemosensory and metabolic adaptations. Our project focuses on the species-rich and economically and ecological important clades Aculeata and Chalcidoidea. We aim to understand the genomic architecture in representative groups that are linked to parallel transitions to secondary herbivory in these clades. We will apply a comparative genomic and transcriptomic approach to uncover genomic underpinnings of macro-evolutionary dietary adaptations in a collaborative project.

We are looking for a highly motivated candidate with interest in molecular evolution, genomics, transcriptomics and ecology. The PhD project will focus on comparative genomics and transcriptomics of already available and newly sequenced hymenopteran genomes, and will comprise the application of latest sequencing technologies and diverse genome assembly and annotation pipelines, statistical analysis of gene family evolution and direc-

tion and strength of selection acting on candidate gene families, and studying genome TE dynamics that might have fostered repeated transitions to phytophagy. The successful applicant will join an international dynamic scientific environment at the University of Mï¿½nster and will have access to state-of-the-artlaboratories and computing facilities. The position is tied towards working towards a doctoralqualification and funded by the German Research Foundation (DFG) for a period of 3 years (75% TVL E13). The preferred starting date is 1 February 2023.

The project is embedded in the Priority Programme (SPP) 2349 "Genomic Basis of Evolutionary Innovations" (GEvol, https://g-evol.com) funded by the German Research Foundation (DFG). The goal of GEvol is to collaboratively and interdisciplinarily exploit new computational and OMICS methods to reveal the history of genomes in the insect taxon through comparative genomics. The PhD candidate will be enrolled in the GEvol activities including diverse workshops on bioinformatics and statistical methods, symposia, and meetings.

Our expectations Applicants should be highly motivated scientists interested in interdisciplinary work, ideally with a strong interest in hymenoptera. They should have the equivalent of a master's degree in biology, preferentially with a focus on evolution, molecular biology, genomics or a related field. A background, and ideally some experience, in any of the following areas is advantageous: molecular laboratory skills, bioinformatics (Linux/bash, Python, R), statistics and/or practical field work. Applicants should have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, therefore good proficiency in spoken and written English is a requirement. German language skills are not a requirement, but a willingness to learn is desirable.

Advantages for you The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution. As a part of the Priority Programme GEvol (SPP 2349) the project will involve intensive collaboration with consortium partners across Germany.

The University of Mï¿½nster strongly supports equal opportunity and diversity. We welcome all applicants regardless of sex, nationality, ethnic or social background, religion or worldview, disability, age, sexual orientation or gender identity. We are committed to creating family-friendly working conditions.

The University of Mï¿½nster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities.

Application Please send your application as a single pdf file containing: - a one-page cover letter outlining your motivation, research interests and skills - a detailed CV with a list of publications

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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

UNewMexico EvolEcol VenomSymbiosis

Two labs in the Biology Department of the University of New Mexico are looking for students.

The E. Martinson Lab (https://ellenmartinson.weebly.com/) is recruiting MS and PhD-level students to study the molecular mechanisms of species interactions. The lab is interested in 1) the function and evolution of parasitoid wasp venom and 2) the evolution and mechanisms behind insect-induced plant galls. Students will learn transcriptomics, genomics, proteomics, RNA interference, and phylogenetics to approach questions from multiple angles. Students will be expected to develop their own dissertation project that reflects their own interests, within the overall goals of these funded projects. The lab addresses questions in the areas of evolution, speciation, community ecology, molecular biology, and genomics.

The V. Martinson Lab is looking for enthusiastic candidates for either MS or PhD graduate students for research involving entomology, microbiology, evolutionary biology, genomics, symbiosis, host-microbe, and gut microbiota studies! Specifically, we are addressing 1) how the intracellular fungal mutualist (Symbiotaphrina) has evolved across Ptinidae beetles and 2) the process by which mutualist fungi become intracellular. These projects will utilize diverse techniques - gnotobiotic experiments, transcriptome and genome analysis, metabolomics, microscopy, RNAi, and fungal transformation - to compare and contrast microbial

eukaryotes and prokaryotes that have become intracellular mutualists. https://vincentmartinson.weebly.com/ UNM Biology includes a broad diversity of research labs. The department has deliberately fostered the concept of a single, large, interactive department covering the spectrum of modern biology, one that blurs traditional boundaries and favors collaborative and multidisciplinary approaches. The integration of such diverse research areas fosters exciting connections from ecosystems to microbes.

UNM is located in Albuquerque, New Mexico at the base of the Sandia Mountains. The city is surrounded by amazing outdoor spaces allowing for easy access to hiking, mountain biking, skiing, and rock climbing. Albuquerque is the largest city in New Mexico with fantastic food and cultural events. It is also located only 45 min away from the art and culture of Santa Fe.

If you are interested, please send your CV and a couple paragraphs (one-page max) on why you would like to join the lab and your research interests to Dr. Ellen Martinson (emartinson@unm.edu) or Dr. Vince Martinson (vmartinson@unm.edu)

The deadline to apply for Fall 2023 is Jan 3, 2023, however for best chances please reach out before Dec 9. Email inquiries to one or both of us are welcome.

Ellen Martinson <eomartinson@gmail.com>

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UNottingham RewildingPollinatorsAndAI

Measuring the impact of rewilding on pollinator biodiversity: what can machine learning tell us?

Applicants are invited for a fully-funded (UK and international students) PhD studentship at the University of Nottingham (UK), in collaboration with the Nattergal, the Centre for Ecology and Hydrology and Observation.org, starting Sep/Oct 2023. Deadline for application: January 11th 2023.

Link: https://www.envision-dtp.org/2022/measuring-the-impact-of-rewilding-on-pollinator-biodiversity-what-can-machine-learning-tell-us/ Rewilding is an approach to conservation which seeks to regenerate degraded ecosystems in a self-sustaining way, with relatively little ongoing management. Rewilding

projects are proliferating in the UK, especially following the high-profile success of the Knepp Wildland project in West Sussex, and are potentially transformative in attempts to protect and enhance biodiversity nationally. There is an urgent need to monitor and evaluate the success of rewilding projects, to facilitate evidence-based design and management of sites for maximal conservation value.

Central to evaluating the impact of conservation projects is accurate and cost-effective surveying of biodiversity. However, the challenges of species identification often lead to patchy or ineffective monitoring of all but the most easily identifiable species groups. Recent technological developments, especially using machine learning (ML) in species recognition, have the potential to reduce dramatically the costs of biodiversity monitoring.

This project will evaluate the effectiveness of ML species recognition tools for monitoring biodiversity in the context of a major new rewilding project (Boothby Wildland) being implemented Nattergal Ltd, founded by the creators of the Knepp Wildland. We will survey key pollinators over the first three years of the Boothby project, assessing the impact of the retreat from arable farming on spatial and temporal patterns in biodiversity. Simultaneously, we will validate an ensemble of species recognition apps with conventional expert-led insect identification, enabling us to assess the long-term feasibility of rapid, low-cost monitoring of biodiversity.

The successful applicant will gain practical experience of biodiversity monitoring in the field, cutting-edge species identification technology, and diverse approaches to data management/analysis. They will work in partnership with a flagship rewilding project in the earliest stages of its development. The focus of the work will be shaped by the student's interests, working with a cross-disciplinary supervisory team, including conservation practitioners and specialists in machine learning technology.

Essential: The student should hold at least an upper-second class (2.1) undergraduate degree or equivalent in a biological science; they should have experience of ecology and conservation, including some field experience; they should have practical research project experience and be familiar with basic statistical analysis.

Highly desirable: A Masters-level qualification in a relevant subject area; full UK or equivalent driving licence; experience of practical entomology; experience of statistical/mathematical modelling; experience of programming (e.g. Python, R).

Informal enquiries should be sent by email to Dr Tom Reader: tom.reader@nottingham.ac.uk.

Dr Tom Reader Associate Professor School of Life Sci-

ences University Park University of Nottingham NG7 2RD Tel. 0115 9513213 https://orcid.org/0000-0001-7586-8814 Web: ecology.nottingham.ac.uk/tomreader

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Tom Reader <Tom.Reader@nottingham.ac.uk>

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UPadova IntegrativeTaxonomyInvertebrates

PhD-student position in Ecology-Evolution-Conservation at Padova University (Italy)

We are looking for a graduate student interested in biodiversity and highly motivated to develop multidisciplinary skills in a collaborative team, to study the evolutionary diversity of neglected terrestrial animals in the South-Eastern Prealps (Italy). Starting early 2023, for 3 years.

Project description:

Major biodiversity components of the terrestrial habitats of the South-Eastern Prealps are still largely unknown and neglected, especially among arthropods and annelids. The project aims to unveil the evolutionary differentiation of selected species complexes of these animals (among butterflies, centipedes or terrestrial leeches) through an integrative approach (addressing morphological, genomic and ecological diversity) and a geographical fine-scale sampling. The PhD student will have the chance to improve skills in field work, morphometrics, molecular techniques and statistical analysis.

Information on how to apply: https://www.unipd.it/-en/phd-programmes-calls-and-admissions For more information on the research project, please contact Lucio Bonato: lucio.bonato@unipd.it

Lucio Bonato Dipartimento di Biologia, Universitï¿½½ di Padova e-mail: lucio.bonato@unipd.it

Lucio Bonato <lucio.bonato@unipd.it>

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UPorto CIBIO-InBIO FeatherSingleCellOmics

UPorto_CIBIO-InBIO.FeatherSingleCellOmics

Application deadline: November 14th, 2022.

Title: Single-cell omics of feather colouration.

Project description: Bird feather colouration is among the most compelling examples of phenotypic variation in nature. By encompassing differences at multiple levels (e.g. species, individuals, sexes, and body parts), and by being subject to both ecological and sexual selection, it offers a powerful study system for evolutionary research. Feathers represent the most complex epidermal structures of vertebrates, involving elaborate colour patterns whose developmental and biochemical bases are only partially understood. This project seeks to tackle the genetic, developmental, and cellular basis of colours in birds from an innovative perspective by explicitly focusing on single-cell omics methodologies applied to feather and colour patterning morphogenesis. The successful candidate will work collaboratively with members of the Evolutionary Genetics and Genomic group (EVOLGEN) at CIBIO-InBIO (https://cibio.up.pt/en/) and directly with the group leader Dr. Miguel Carneiro and with Dr. Roberto Arbore and will be enrolled in the Doctoral Programme in Biodiversity, Genetics and Evolution of the Faculty of Sciences of the University of Porto (Portugal). Taking advantage of the availability of natural and domesticated colour variants among several bird species, as routinely employed in the host lab, the candidate is expected to develop his/her own project within the framework of the lab's research in animal colouration (possibly within the scope of the 2021 ERC Consolidator Grant "EYESPOT" awarded to Miguel Carneiro). We offer a dynamical and interactive working environment within a team with wide-ranging research interests and with strong population genomics and genetics expertise. We value creativity, collaborative skills, and a passionate and open-mind attitude towards biological research. Previous experience in developmental and/or cell biology and genomics is an asset. Prior experience in animal coloration and avian biology will be valued,

although not required.

Applications: Questions can be directed to Miguel Carneiro (miguel.carneiro@cibio.up.pt) and Roberto Arbore (roberto.arbore@cibio.up.pt). The Call is open from August 8th to 5:00 pm (Lisbon time) of November 14th, 2022. Applications must be submitted online using the application form available at https://www.biodiv.pt/en/events/call-for-phd-studentships-evolgen-2022/ . Roberto Arbore <roberto.arbore@cibio.up.pt>

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UPorto EvolutionDesertCamouflage

PhD studentship opportunity: Evolutionary ecology of camouflage in arid-adapted rodents

We are looking for an enthusiastic student to join a field-based project and expeditions (including the Sahara-Sahel) to collect data and complete a PhD thesis.

Camouflage is an anti-predator adaptation that hinders detection or recognition by increasing prey resemblance to its environment. However, ongoing climate and habitat changes alter the visual environment of animals. Shifts in selection, and correlational selection on traits linked to fitness, is a key mechanism leading to adaptive colour response. Desert rodents in the Sahara-Sahel are an excellent system within which to test adaptive hypotheses. In this project we aim to investigate, for example: how animals cope with heterogeneity in their visual habitat; how cognitive processing facilitates camouflage efficacy; how costly behaviours constraint adaptive responses. With field work in remote and distinct geographic locations, hosting a diverse community of rodents, and state of the art behavioural and physiological experiments (both, in and ex situ), this study will investigate the adaptive mechanisms of diversification in harsh and fluctuating desert conditions.

The selected candidate will apply with the team for an independent PhD scholarship within financing opportunities. Financing opportunities: Fellowship through FCT foundation: https://www.fct.pt/; PhD Biodiv studentship: https://www.biodiv.pt/en/ . Application: Send (1) a short letter of interest (1 page), (2) CV (1-3 pages) and (3) list of publications (all integrated in one pdf file) to: boratyns@cibio.up.pt

Group leader: Zbyszek BoratyÅski (bo-ratyns@cibio.up.pt, https://boratyns.wixsite.com/-boratynski), BIOPOLIS, CIBIO/InBio, Research Center in Biodiversity & Genetic Resources, University of Porto, Portugal Collaborators: Ossi Nokelainen (ossi.nokelainen@jyu.fi, https://ossinokelainen.fi/-), Department of Biological and Environmental Science, University of Jyväskylä, Finland Nick Scott-Samuel (N.E.Scott-Samuel@bristol.ac.uk, https:-/camolab.com/members.php?s=scott-samuel), School of Psychological Science, University of Bristol, UK

References: Nokelainen et al. 2020. Camouflage in arid environments: the case of Sahara-Sahel desert rodents. J Ver Biol, 69:1-12. org/10.25225/jvb.20007 Smart et. al 2020. In the corner of the eye: camouflaging motion in the peripheral visual field. Proc R Soc B 287:20192537. org/10.1098/rspb.2019.2537 BoratyÅski et al. 2017. Repeated evolution of camouflage in speciose desert rodents. Sci Rep, 10.1038/s41598-017-03444-y Nokelainen, Stevens 2016. Camouflage. Cur Biol 26:R654-6. 10.1016/j.cub.2016.03.044

Zbyszek BoratyÅski, PhD

BIOPOLIS, CIBIO/InBio, Research Center in Biodiversity & Genetic Resources, University of Porto Campus de Vairāo, Rua Padre Armando Quintas, nÂº 7, 4485-661 Vairāo, Portugal Evolutionary Ecology and Ecophysiology Team < https://boratyns.wixsite.com/-boratynski >

Zbyszek BoratyÅski <boratyns@gmail.com>

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URochester EvolutionEcologyGeneticsGenomics

UR Department of Biology Graduate Student Recruitment for Fall 2023

The Department of Biology at the University of Rochester is seeking applicants for graduate admission to begin study in Fall 2023. Research strengths of our Ecology, Evolution, Genetics, and Genomics (E2G2) group include evolutionary genetics, population genomics, development, evolutionary ecology, behavioral ecology, and conservation.

Faculty members taking students for Fall 2023:

- Jenn Brisson (evolutionary genetics, phenotypic plas-

ticity, evolution of morphology) https://brissonlab.org - Nancy Chen (population genetics, contemporary evolution, conservation genomics) https://popgenchenlab.github.io/ - Justin Fay (evolutionary genetics, domestication, regulatory evolution) http://labsites.rochester.edu/faylab/ - Amanda Larracuente (evolutionary genetics, computational biology, selfish genetic elements) https://blogs.rochester.edu/larracuente - Ben Peter (population genetic methods, human genetic history, ancient DNA) https://bpeter.org - Al Uy (evolutionary ecology, evolutionary genetics, behavioral ecology, speciation, sexual selection) http://tropbiolab.org/JACU/ Information about the graduate program and application materials can be found at http://www.sas.rochester.edu/bio/graduate/index.html. The deadline is December 1. Interested candidates should contact potential faculty advisors for more information.

The University of Rochester is a top-tier research university located in Rochester, New York. Rochester is a mid-sized city in beautiful Upstate New York with a thriving arts/music scene, great restaurants, and a low cost of living. Graduate students in our program are primarily supported by research assistantships.

Our department and its graduate program are deeply committed to providing a safe, inclusive and supportive learning environment for graduate students. Our goal is to provide a first-class research and training environment in which faculty, students and staff are united by mutual respect and the love of science. To achieve this goal, a number of institutional resources have been created to address student concerns. The CARE network (https://www.rochester.edu/care/) is a nationally recognized program that provides confidential support for addressing emotional, physical or social concerns. The program has a dedicated staff member responsible for serving AS&E graduate students. The Ombudsperson Program provides a confidential and independent mechanism for addressing conflicts and concerns of PhD candidates and post-doctoral fellows. More information regarding these and other university resources are available through our Department Administrator, Brenna Rybak (brenna.rybak@rochester.edu).

"Chen, Nancy" <nancy.chen@rochester.edu>

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USalzburg BeetleColorationEvolution

PhD position in evolutionary biology

The research project aims to analyse the evolutionary biology and biogeographic processes of checkered beetles of the genus Trichodes (Cleridae), which have a conspicuous warning coloration. Although they are commonly collected, no attempt has ever been made to study the phylogenetic relationships of the 93 species. Yet the range of the genus extends over large portions of the Gondwanan continents, making it an interesting model system for answering biogeographic questions. In addition, the aposematic coloration of the nontoxic beetles raises questions about a mimicry system with co-occurring toxic blister beetles. The main activities will be work in the morphometrics and genomics laboratory, analysis of data, and scientific writing. There will be opportunities for entomological collecting trips in the Mediterranean, but a focus will be on extracting historical DNA from dried collection specimens, which means that samples are already available.

Applicants have a MSc degree (or equivalent) in evolutionary biology, ecology, biology or a related discipline. A high level of motivation and strong interest in biogeography, evolutionary biology, and phylogenetics are required. Experience in the molecular laboratory and in phylogenetic analyses is desired. Ideally with large data sets from Next Generation Sequencing, which requires some bioinformatics skills. A good command of English is a requirement. The offered position thus allows learning modern methods in the field of molecular genetics (genomics) and morphometrics - from collection trips to the laboratory and statistical analysis. Become part of the young, newly established and emerging research group "Evolutionary Zoology" at the University of Salzburg and meet colleagues with interest in topics of evolutionary biology, phylogeography and phylogenetics.

Your tasks: -â€â€â€â€âin the field and in museum collections - Extraction of DNA from fresh and historical samples and sequencing in the molecular laboratory - Phylogentic reconstructions -â€â€â€â€âmeasurements (3D) -â€â€â€â€âanalysis, phylogenetic comparative methods -â€â€â€â€âof scientific articles - â€â€â€â€âof symposia

The remuneration is in accordance with the UG and the Angestelltengesetz for a university assistant in accor-

dance with ç 26 of the Kollektivvertrag der Universitäten (dissertant) The group is B1; the minimum monthly salary for this position is €2,294.00 gross according to the UG 2002 Kollektivvertrag at 30 hours per week.

The Paris Lodron University of Salzburg aims to increase the proportion of women among university staff and therefore encourages applications from qualified women. In case of equal qualifications, women will be given priority.

Unfortunately, travel and accommodation expenses incurred on the occasion of the admission procedure cannot be reimbursed. Admissions are made in accordance with the provisions of the Universitätsgesetzes 2002 (UG) and the Angestelltengesetz.

The position is limited to 2 years. An extension will be sought. The structure of the doctoral thesis follows a cumulative structure. The anticipated start date is Jan 2, 2023. Interested applicants* should send a letter of motivation and their CV in electronic form to jonas.eberle@plus.ac.at.

For further information, please contact Dr. Jonas Eberle (jonas.eberle@plus.ac.at). The deadline for applications is 12 Dec 2022.

Eberle Jonas <jonas.eberle@plus.ac.at>

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USheffield PlantEvolution

Evolution in the shifting sands: understanding how beach grasses have adapted to life on the coast.

About the Project: We are seeking an enthusiastic student with an interest in ecology and evolution to work on a project investigating convergent adaptation in beach grasses.

Grasses play a fundamental role in stabilising sand dunes, the most at risk habitat in Europe. They do this by colonising the beach where they are exposed to the extremes of the coastal environment. As they grow they stabilise the sand into the dune habitat which is home to a unique array of biodiversity and acts as an important natural flood defence.

Despite the difficulty of surviving in such a demanding environment, the beach has been independently colonised by a number of grass species. The objective of this project is to determine how these species have convergently evolved to life on the coast. The outcomes of this project have the potential to improve the conservation of this habitat in the face of rapid climate change, and reduce coastal erosion.

The project can be tailored to the interests of the student but would likely include elements of: fieldwork at coastal habitats across Europe, conducting large-scale growth experiments under greenhouse conditions and using cutting-edge comparative genomics and transcriptomics.

This project builds on recent work in Dr Dunning's research group investigating the process of rapid adaptation in grasses, the most ecologically and economically important group of plants.

To discuss any aspect of this project please email Dr Dunning (l.dunning@sheffield.ac.uk)

Start date: 1st October 2023

This PhD project is part of the NERC funded Doctoral Training Partnership "ACCE" (Adapting to the Challenges of a Changing Environment. ACCE is a partnership between the Universities of Sheffield, Liverpool, York, CEH, and NHM, for more information about ACCE and how to apply please visit the website: https://accedtp.ac.uk/ The ACCE DTP is committed to recruiting extraordinary future scientists regardless of age, disability, ethnicity, gender, gender identity, sexual orientation, faith or religious belief, pregnancy or maternity, parental or caring responsibilities or career pathway to date. We understand that a student's potential can be shown in many ways and we strive to recruit students from all backgrounds, and support them on their scientific journey.

We have designed our application systems to identify candidates who are likely to be successful in research regardless of what opportunities may have been available to them prior to their application.

How to apply: All applicants to ACCE must complete the ACCE personal statement proforma. This is instead of a normal personal/supporting statement/cover letter. The proforma is designed to standardise this part of the application to minimise the difference between those who are given support and those who are not. The proforma and more information on the ACCE application process can be found here: https://accedtp.ac.uk/how-to-apply-to-acce-dtp/ . Shortlisted applicants will be invited for an interview to take place in the w/c 20th February 2023.

Funding Notes This project is part of the NERC ACCE Doctoral Training Partnership. Appointed candidates

will be fully-funded for 3.5 years. Start date 1st October 2023. The funding includes: Tax-free annual UKRI stipend (17,668 for 2022/23 academic year) UK tuition fees Research support and training grant 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.

– *Dr Luke T. Dunning*

NERC Fellow Ecology and Evolutionary Biology School of Biosciences University of Sheffield @LukeTDunning < https://twitter.com/luketdunning > https://dunning-lab.group.shef.ac.uk Luke Dunning <l.dunning@sheffield.ac.uk>

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USussex NectarGenomics

PhD position available to study the genomics and ecology of floral nectar to enhance crop-pollinator interactions

We invite interested students to apply for a fully-funded PhD studentship based at the University of Sussex in collaboration with the University of Southampton (UK), within SoCoBio's 4-year doctoral training programme. It is open to UK and international students. Link to see the project and application details including eligibility: https://southcoastbiosciencesdtp.ac.uk/project/-understanding-the-genomics-and-ecology-of-floral-nectar-to-enhance-crop-pollinator-interactions/ Supervisors: Dr Maria Clara Castellanos (www.sussex.ac.uk/-lifesci/plant-evolutionary-ecology-lab) and Dr Mark Chapman (https://www.southampton.ac.uk/people/-5x9y5q/doctor-mark-chapman)

Floral nectar plays a fundamental role in crop-pollinator interactions, but our understanding of the genetic basis, plasticity, and ecological costs of nectar traits is still limited. These aspects of nectar biology are crucial when considering how to develop crop varieties that are more attractive to pollinators. This in turn is urgent because there is strong evidence of pollinator declines around the world. Pollinators increase yield and reduce the variability of yield in space and time for many important crops, so their decline has potential impacts on sustainable agricultural productivity and food security.

The importance of animal pollination has inspired rec-

ommendations to optimize insect visitation to crops. This includes the development of varieties that are more rewarding to pollinators via increased nectar quantity and quality. This project will explore the interaction between genetic and ecological aspects to inform the role of nectar variation in pollination success and the viability of selection of nectar-enhanced varieties. For this, the student can focus on one or more of these areas: 1) study the genetic basis and plasticity of nectar traits using common gardens and controlled crosses combined with genome-wide association (GWA). This will include understanding genetic correlations with other plant traits that might enhance or constraint selection on nectar traits; 2) study the cost of nectar production, which is still poorly understood for many plants, but central to the idea that nectar-enhanced varieties are possible to breed; 3) measure nectar quality and quantity and their effect on yields, to determine the importance of nectar variability on pollination quality and homogeneity. Focal species will be selected among commercially important crops with genomic tools available and representing different plant families (sunflower, strawberry, faba beans, oilseed rape).

Results will help us understand how improved nectar rewards boost productivity while mitigating the declines of pollinator communities in agricultural and natural landscapes.

Ideally the candidate will have a strong interest in the evolution and ecology of plants and their interaction with animals, and be willing to learn new field and analytical techniques. The project can have a significant field component in the UK, so it is important that applicants are committed and available to spend time in the field. A driving licence and experience with plant growing are a plus.

The student will be part of the vibrant School of Life Sciences at the University of Sussex (http://-www.sussex.ac.uk/lifesci/ebe/). Our campus is located within a National Park, 10 minutes from the lively seashore city of Brighton.

Applications should be submitted directly to the SoCoBio's doctoral training programme (southcoastbiosciencesdtp.ac.uk). Application deadline: Monday 9th January 2023. PhD expected start date: October 2023.

Please get in touch with Maria Clara Castellanos for informal inquiries about the project: m.c.castellanos@sussex.ac.uk.

Maria   Clara   Castellanos <M.C.Castellanos@sussex.ac.uk>

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UTuebingen EcoEvoModelling

The Plant Ecology Group at the University of Tuebingen is searching for a

Ph.D. student in Theoretical Ecology/Ecological Modeling

The position is part of the trans- and interdisciplinary research consortium running the newly established SAGE Centre (Sustainable Adaptation to Global Change in the Middle East) in the Jordan River region. The region is characterized by extraordinarily diverse ecosystems and important genetic resources. At the same time, the region and its biodiversity will suffer heavily from increasing incidents of climatic extremes.

The SAGE Centre is located at the University of An Najah and coordinated by the University of Tuebingen. Its goal is to provide science-based solutions to the problems caused by climate and land use change. The Centre provides a number of PhD fellowships which are funded by the German Academic Exchange Service (DAAD). All selected fellows will be part of an international PhD Research School.

The role of the PhD student is to develop a theoretical framework that will enable to investigate climate-adapted management schemes for rangelands, i.e. hotspots of biodiversity. The anticipated project is embedded in an interdisciplinary framework. Namely, several other PhD projects will work on a region-wide experimental system that aims at studying the combined effects of grazing, biodiversity and drought on rangeland resistance and resilience. Additionally, more PhD projects work on hydrological aspects as well as economic aspects of rangelands.

We are seeking for an independent student with an M.Sc. in Ecology or a related field. Excellent knowledge in ecological modelling and affinity to field-based ecology is required. The candidate shall also be willing to spend some time in the study region. Furthermore, the candidate should have excellent writing and presentation skills, and sh/e should be ready to work in a multicultural and interdisciplinary setting. Excellent knowledge of English is essential.

The position will be partly paid according to the German pay scale E13 TV-L for the time of stay in Germany, and complemented by a competitive fellowship for the time abroad. It is scheduled for a period of three years,

starting ideally between Dec 1st 2022 or Jan 1st, 2023.

The University seeks to raise diversity and therefore urges underrepresented groups to apply for the position.

Please send your application including a letter of interest, CV and a list of publications (if applicable) as a single pdf-file to Dr. Max Schmid (vegetation@bot.uni-tuebingen.de) to whom also inquiries should be addressed. Please make sure that two letters of reference are sent to the above address independently. The deadline for applications is November 10, 2022, or until position is filled.

Max Schmid <max.schmid@uni-tuebingen.de>

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UVienna ViralEvolution

PhD position on the ecology and evolution of giant viruses

We are seeking a PhD candidate for the ERC funded project "CHIMERA"

CHIMERA will investigate the role of mobile genetic elements in the ecology and evolution of giant viruses. These viruses are abundant in soil and aquatic environments, infecting a wide range of protist hosts. Besides unusually large particle sizes, giant viruses possess complex "chimeric" genomes, including genes that were likely acquired from their hosts as well as bacteria that infect the same hosts. Unique is the presence of mobile genetic elements, that may play an important role in host-parasite co-evolution, whereby the same molecular systems are employed by hosts and parasites for defence and subsequent counter-defence. The holder of this PhD position will support the project by studying the competition and interactions between viruses, bacteria and their hosts, from the micro (in a controlled laboratory environment) to the macro scale (in the wild).

The research will be conducted as part of a Starting Grant from the European Research Council under the supervision of Dr. Anouk Willemsen, hosted at the Division of Microbial Ecology (DOME: https://dome.csb.univie.ac.at/) at the Centre for Microbiology and Environmental Systems Science (CMESS: https://cmess.csb.univie.ac.at/) of the University of Vienna.

Tasks: Specific research tasks will be tailored to the candidate. These can include: ——— - Conduct lab-

oratory experiments with giant viruses, bacteria and protists using cell-culture, microscopy and sequencing techniques. ——— - Field work, targeted metagenomics and subsequent bioinformatic analyses to investigate the abundance of viruses, bacteria and protists in natural samples. ——— - The development of protocols to study giant viruses in the laboratory (e.g. microscopy, flow cytometry, mass spectrometry, genome modification) General tasks include: ——— - Active participation in research, publication, administration and communication activities. ——— - Analyses of data generated by the experiments. ——— - Collaborate with members of the research team. ——— - Present work output in group and departmental seminars. ——— - Disseminate results at national and international conferences. ——— - Supervision of trainees and students.

Profile of the Candidate: ——— - Master's degree (or equivalent) in Biology/Microbiology/Virology/Molecular Biology/ Bioinformatics or a related subject. ——— - High ability to express yourself both orally and in writing. ——— - Very good organizational skills. ——— - Ability and willingness to work independently as well as in a larger team. ——— - Willingness to acquire new methodological skills required for the project and PhD thesis. ——— - Excellent command of English (written and spoken).

The starting date of the position is possible from January 1st 2023 and preferably not later than July 1st 2023.

For further information, please contact: Dr. Anouk Willemsen (anouk.willemsen@univie.ac.at) Website: https://awillemsen.weebly.com/   Anouk Willemsen <anouk.willemsen@univie.ac.at>

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Jobs

AdelphiU EvolutionaryBiology

Adelphi University's Department of Biology invites applications for a tenure-track position for an evolutionary biologist to begin fall 2023. To apply, visit https://phf.tbe.taleo.net/phf02/ats/careers/v2/-viewRequisition?org=ADELPHI&cws=43&rid=2858 RESPONSIBILITIES: Teaching responsibilities will include an undergraduate first-year major's course (organismal biology, evolution and ecology), evolution both at the undergraduate and graduate level, and undergraduate and graduate courses in the candidate's area of expertise. The successful applicant will have a commitment to teaching students from diverse cultural backgrounds and demonstrated excellence as a teacher, plus a record of significant research accomplishment and the potential to develop a fundable independent research program involving undergraduate and master's students. Some research release time is available pre-tenure. The successful applicant will join an active, engaged, and collegial department spanning all areas of biology. Opportunities for collaboration exist within the university as well as in the NY metropolitan area. QUALIFICATIONS: A Ph.D. is required and postdoctoral experience is highly preferred. Candidates with expertise in the areas of phylogenetics and/or bioinformatics/computational biology will be preferred. APPLICATION: Applicants should submit the following, all merged into one document: cover letter, statement of teaching interests and philosophy, statement of research background and interests, a statement of incorporating diversity, equity and inclusion in teaching and research (all 1-3 pages each), CV, and the names and contact information for 3 references.

Deadline for applications: November 18, 2022. ABOUT ADELPHI: Adelphi University, New York, is a highly awarded, nationally ranked, powerfully connected doctoral research university dedicated to transforming students' lives through small classes with world-class faculty, hands-on learning and innovative ways to support academic and career success. Adelphi offers exceptional liberal arts and sciences programs and professional training, with particular strength in our Core Four-Arts and Humanities, STEM and Social Sciences, the Business and Education Professions, and Health and Wellness. Recognized as a Best College by U.S. News & World Report, Adelphi is Long Island's oldest private coeducational university, serving more than 7,500 students at its beautiful main campus in Garden City, at learning hubs in Manhattan, the Hudson Valley and Suffolk County, and online. The University offers students 75 undergraduate programs, more than 70 master's degree and doctoral programs, and 55 certificate programs in the liberal arts, the sciences and professional training. With powerful partnerships throughout the New York area, more than 118,000 graduates across the country, a growing enrollment of students from 44 states and 65 countries, and rising rankings from top publications and organizations, Adelphi is a dynamic community that plays a leadership role on Long Island and in the region. ABOUT THE COLLEGE OF ARTS AND SCIENCES: The College of Arts and Sciences at Adelphi University is a community of educators, learners, and citizens firmly committed to the principles of diversity, equity, and inclusion. We believe that these principles enrich our entire community, foster healthy discussions, improve decision-making, and enhance the educational environment and outcomes of our students. We support initiatives, activities, discussions, and practices that uphold the equitable treatment of all members of our community and strengthen their sense of belonging at Adelphi. We relentlessly strive to become a model for a socially just and inclusive institution. To apply, visit https://phf.tbe.taleo.net/phf02/ats/careers/v2/-viewRequisition?org=ADELPHI&cws=43&rid=2858 Shana M Caro <scaro@adelphi.edu>

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Editor NatureEcologyEvolution

Job Title:Associate or Senior Editor,Nature Ecology & Evolution

Location:London, Berlin, Shanghai, Nanjing, Tokyo or New York

Full Time, Permanent, hybrid role

Closing date: December 12th 2022

Do you have a background in ecology or evolution research, but are looking for involvement in a broader range of topics than your own specific research area? We are looking for an Associate or Senior Editor to join the team the offices Ecology & Evolution, and help shape the journal's mission the offices original research and commentary in all areas related to ecology and evolution, and develop the highest standards in editorial practice.

The successful candidate will handle manuscripts across

the journal's scope,developing a special focus relevant to their own area of expertise. The role involves the editorial assessment of manuscripts for publication, management of peer review, commissioning and writing of content and acting the offices Ecology & Evolution's interface with the global research and policy community.

This is a demanding and intellectually stimulating position, and calls for a keen interest in the practice and communication of science. A key aspect of the job is interaction with the scientific community, including attending international conferences. The successful candidate must, therefore, be a great communicator, have excellent interpersonal skills and be prepared to travel as may be required.

Applicants should hold a PhD or equivalent degree, with postdoctoral experience preferable.

Previous editorial experience is beneficial but not essential.

The position will be based in the offices of Springer Nature, and the terms and conditions are competitive, reflecting the importance and responsibilities of the role.

Applications should include all of the following:

1. A cover letter explaining your interest in the position, and indicating salary expectations.

2. A CV / resume detailing your education, relevant employment history, list of published scientific papers, and any other achievements that demonstrate your suitability for the position. 3. A concise discussion (no more than 800 words) of recent scientific developments that you have found particularly exciting (stating why).

Please note the closing date, December 12th 2022

At Springer Nature we value the diversity of our teams. We recognize the many benefits of a diverse workforce with equitable opportunities for everyone. We strive for an inclusive workplace that empowers all our colleagues to thrive. Our search for the best talent fully encompasses and embraces these values and principles. Visit the Springer Nature Editorial and Publishing website at www.springernature.com/editorial-and-publishing-jobs for more information about our Research E&P career opportunities.

US employees are eligible for benefits including, but not limited to,medical, dental, vision, short and long term disability, life and AD&D insurance, tuition assistance, employee assistance program, paid vacation and sick time, flexible spending accounts, and a 401k retirement savings plan.

In order to comply with various pay transparency laws and legislations in the United States, the salary range

and benefits for this position are listed below. This information is only applicable to US-based candidates and the actual salary offer may vary based on work experience, education and skill level. Annualized Base Salary Range for Associate Editor: $74,000 and Senior Editor: $91,000.

https://careers.springernature.com/job/London-Associate-or-Senior-Editor%2C-Nature-Ecology-&-Evolution/867909601/ Vera Dos Santos Domingues <vera.domingues@nature.com>

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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&PortalHostNode=APPLICANT& NoCrumbs=yes& PortalKeyStruct=yes>*. 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 %2fcareers %2f& PortalHostNode=APPLICANT& NoCrumbs=yes& PortalKeyStruct=yes

Annalise Paaby <apaaby@gmail.com>

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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 +Group +Barton

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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MarianU TeachingEvolutionaryBiology

Position Title: Assistant Professor of Biology: Integrative Biologist (2 POSITIONS)

Job Description: As a part of a diverse community of faculty and staff who represent many faith systems and worldviews, the College of Arts and Sciences at Marian University-Indianapolis seeks qualified applicants for a two Integrative Biologists with expertise in some combinations of cell biology, molecular genetics, developmental biology, and computational biology. Preference will be given to those showing the ability to develop an undergraduate research program. Successful candidates will also foster student learning through innovative pedagogy, inclusive practice, and contributions to a research

across the curriculum model that integrates authentic, novel research projects into introductory courses for majors. The Department of Biology at Marian University believes that to grow stronger it is essential to recruit and retain a diverse faculty to build an inclusive community. Thus, we welcome and encourage orientations, gender identities, ages, socio-economic backgrounds, political perspectives, cultures, and national origins.

Marian University is a Catholic, comprehensive, regional institution of higher education dedicated to excellent teaching and learning in the Franciscan and liberal arts traditions and offers a multitude of undergraduate, graduate and professional programs. Marian University has been experiencing significant growth over the last decade and is expanding its academic offerings in many areas.

Essential Duties and Responsibilities: - Teach 12 load hours per semester in introductory biology core, and/or upper-level lectures and labs. Course releases may be available for individuals participating in grant writing, research, or developing innovative pedagogy. - Demonstrate academic excellence, the potential for distinctive contributions to the holistic development of students, and actively participate in the life of the campus, and help advances the mission and values of the university. - Engage students in research, scholarship and other professional activities. - Mentor and advise students through academic advising, clubs, research, and internship opportunities, particularly those of pre-professional or pre-medical programs. - Participates in the life of the campus and university service, including participation in faculty governance and co-curricular programs. - Contribute to curriculum development and assessment within the department. - Actively participate in faculty governance within the department and across the university. - Actively engage the Catholic Franciscan mission and identity of Marian University by modeling the Franciscan Sponsorship Values, honoring the legacy of the founding congregation, promoting unity in diversity, and integrating the Catholic Franciscan intellectual traditions in programs and services.

Qualifications: Knowledge of and commitment to the mission of Marian University. A Ph.D. in Biology or related field with demonstrated ability to integrate across disciplines. Demonstrated potential for excellence and innovation in student-centered instruction. Demonstrated interest in science teaching pedagogy, curriculum and program development. Potential for ongoing research, publication and activity in professional associations. Excellent communication and interpersonal skills. Demonstrated ability to collaborate with colleagues of diverse backgrounds.

We will begin reviewing applications on November 28th,

and continue until the positions are filled. Applications require a cover letter, a current resume, contact information for three professional references, and responses to the supplemental mission questions.

Marian University is an Equal Opportunity Employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Preferred Qualifications Please Review Marian University's Mission & Identity Statement before responding to the supplementary questions on your application: https://www.marian.edu/faith More information and application submission system here: https://marian.peopleadmin.com/postings/1756 Robert Denton <rdenton@marian.edu>

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MiamiU PlantMolecularSystematist

Biology: Assistant Professor (tenure-track) to teach courses in plant biology, evolutionary biology, or plant taxonomy, and an advanced course in evolutionary and molecular systematics; develop an active research program leading to publications and external funding; advise undergraduate and graduate students; serve as Director of the W.S. Turrell Herbarium and provide other service to the institution. Appointment begins August 2023.

Required: Ph.D. in Biology, Botany, Evolutionary Biology, or closely related field by date of appointment.

Consideration may be given to a plant systematist who uses phylogenetic and phylogenomic approaches to answer questions about evolutionary patterns and processes such as species relations, the evolution of key morphological and/or developmental innovations, speciation mechanisms, biogeography, and evolutionary transitions. In addition to having expertise in current phylogenomic approaches, candidates should have familiarity with classic taxonomy systems.

Submit a cover letter, curriculum vitae, statement of research plans, a teaching philosophy, and a one-page diversity statement addressing past and/or potential contributions to advancing diversity, equity, and inclusion through research, teaching, and/or service to https://jobs.miamioh.edu/en-us/job/501002/assistant-professor-plant-molecular-systematics .Department will request letters of recommendation from refer-

ences listed in application. Inquiries may be directed to Dr. David Gorchov at biology@miamioh.edu. Screening of applications will begin November 18, 2022 and will continue until the position is filled.

Miami University is committed to creating an inclusive and effective teaching, learning, research, and working environment for all.

For more information on Miami University's diversity initiatives, please visit the Office of Institutional Diversity & Inclusion webpage. For more information on Miami University's mission and core values, please visit the Mission and Core Values webpage.

Miami University, an Equal Opportunity/Affirmative Action employer, encourages applications from minorities, women, protected veterans and individuals with disabilities. Miami University prohibits harassment, discrimination and retaliation on the basis of sex/gender (including sexual harassment, sexual violence, sexual misconduct, domestic violence, dating violence, or stalking), race, color, religion, national origin (ancestry), disability, age (40 years or older), sexual orientation, gender identity, pregnancy, status as a parent or foster parent, military status, or veteran status in its recruitment, selection, and employment practices. Requests for all reasonable accommodations for disabilities related to employment should be directed to ADAFacultyStaff@miamioh.edu or 513-529-3560.

As part of the University's commitment to maintaining a healthy and safe living, learning, and working environment, we encourage you to read Miami University's Annual Security & Fire Safety Report at http://www.miamioh.edu/campus-safety/-annual-report/index.html, which contains information about campus safety, crime statistics, and our drug and alcohol abuse and prevention program designed to prevent the unlawful possession, use, and distribution of drugs and alcohol on campus and at university events and activities. This report also contains information on programs and policies designed to prevent and address sexual violence, domestic violence, dating violence, and stalking. Each year, email notification of this website is made to all faculty, staff, and enrolled students. Written notification is also provided to prospective students and employees. Hard copies of the Annual Security & Fire Safety Report may be obtained from the Miami University Police Department at (513) 529-2225. Criminal background check required. All campuses are smoke- and tobacco free.

Miami University is committed to providing up-to-date information from the Department of Labor to our applicants for employment. Here, you will find links to the current information regarding the Family and Medical Leave Act (FMLA), Equal Employment Opportunity (EEO), and the Employee Polygraph Protection Act (EPPA).

-

"Moore, Richard" <moorerc@miamioh.edu>

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MiamiU Teaching PlantEvolution

Biology: Assistant Professor (tenure-track) to teach courses in plant biology, evolutionary biology, or plant taxonomy, and an advanced course in evolutionary and molecular systematics; develop an active research program leading to publications and external funding; advise undergraduate and graduate students; serve as Director of the W.S. Turrell Herbarium and provide other service to the institution. Appointment begins August 2023.

Required: Ph.D. in Biology, Botany, Evolutionary Biology, or closely related field by date of appointment.

Consideration may be given to a plant systematist who uses phylogenetic and phylogenomic approaches to answer questions about evolutionary patterns and processes such as species relations, the evolution of key morphological and/or developmental innovations, speciation mechanisms, biogeography, and evolutionary transitions. In addition to having expertise in current phylogenomic approaches, candidates should have familiarity with classic taxonomy systems.

Submit a cover letter, curriculum vitae, statement of research plans, a teaching philosophy, and a one-page diversity statement addressing past and/or potential contributions to advancing diversity, equity, and inclusion through research, teaching, and/or service to https://jobs.miamioh.edu/en-us/job/501002/-assistant-professor-plant-molecular-systematics .Department will request letters of recommendation from references listed in application. Inquiries may be directed to Dr. David Gorchov at biology@miamioh.edu. Screening of applications will begin November 18, 2022 and will continue until the position is filled.

Miami Universityis committed to creating an inclusive and effective teaching, learning, research, and working environment for all.

For more information on Miami University's diversity

initiatives, please visit theOffice of Institutional Diversity & Inclusionwebpage. For more information on Miami University's mission and core values, please visit theMission and Core Valueswebpage.

Miami University, an Equal Opportunity/Affirmative Action employer, encourages applications from minorities, women, protected veterans and individuals with disabilities. Miami University prohibits harassment, discrimination and retaliation on the basis of sex/gender (including sexual harassment, sexual violence, sexual misconduct, domestic violence, dating violence, or stalking), race, color, religion, national origin (ancestry), disability, age (40 years or older), sexual orientation, gender identity, pregnancy, status as a parent or foster parent, military status, or veteran status in its recruitment, selection, and employment practices. Requests for all reasonable accommodations for disabilities related to employment should be directed toADAFacultyStaff@miamioh.eduor 513-529-3560.

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"Davidson, M. Darlene" <davidsmd@miamioh.edu>

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MichiganStateU GeneticsTeaching

A full-time, fixed-term position teaching genetics is available at Michigan State University. Please see the full job posting below and apply at:

https://careers.msu.edu/en-us/job/512645/-instructorast-professor-fixed-term *Please note the deadline and start date has been extended

Position Summary

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.

Equal Employment Opportunity Statement

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, age, disability or protected veteran status.

Required Degree

Doctorate

Minimum Requirements

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 experi-

ence 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.

Required Application Materials

Applicants should submit the following information all in a single pdf at the following posting:

https://careers.msu.edu/en-us/job/512645/-instructorast-professor-fixed-term　　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.

Together-we-will Statement

The university is requiring all MSU students, faculty and staff to be vaccinated against COVID-19 with limited exceptions. Learn more at: https://msu.edu/together-we-will/ Special Instructions

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.

Review of Applications Begins On

1/31/2023

Website

https://integrativebiology.natsci.msu.edu/ MSU Statement

Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in

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MichiganStateU TechLabManager ReptileLifeHistory

Research Technologist positions in reptile evolutionary ecology are available in the new Bronikowski lab (www.abronikolab.com) at Michigan State University's Kellogg Biological Station (https://www.kbs.msu.edu/). The lab studies the evolution of life-histories, with emphasis on comparative biology of aging, by integrating genetics, demography, physiology, ecology, and evolution in the field and lab, using wild populations of reptiles as models. The successful candidate will help with: setting up the lab, compliance, training of lab members, ordering, and field and/or lab research . Opportunities for meaningful, publishable collaboration on projects including sex-specific aging biology, quantitative genetics in wild populations of animals, and ecophysiology, are available depending on the person's interests. Substantial publication opportunities are available, as well as developing scientific outreach and participating in activities at KBS that foster diversity, equity, and inclusion. B.S. degree required. Experience with, or a strong interest in, fieldwork, physiology, or genetics necessary. Position will be for one year initially with possibility for extension based on performance and funding. Contact Anne Bronikowski (abroniko@msu.edu) with questions.

The Bronikowski Lab, Kellogg Biological Station, and Michigan State University are all committed to fostering a diverse, equitable, and inclusive environment.

To apply, please submit cover letter and resume

at: https://careers.msu.edu/en-us/job/512692/research-technologist-i. Please also be prepared to enter 3 references.

Anne M. Bronikowski, PhD Professor, Integrative Biology Kellogg Biological Station - Michigan State University 3700 East Gull Lake Rd. Hickory Corners MI 49060 USA Lab webpage < http://abronikolab.com/ > google scholar < https://scholar.google.com/-citations?hl=en&user=CWgDE8QAAAAJ&view_op=-list_works&sortby=pubdate >

"Bronikowski, Anne" <abroniko@msu.edu>

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NewYorkU PrimateEvolution

Assistant Professor in Biological Anthropology

New York University: NYU - NY: Faculty of Arts and Science (FAS): Anthropology Department

Location New York Open Date Nov 3, 2022 Description New York University

Description: The Department of Anthropology at New York University invites applications for a tenure-track appointment in Biological Anthropology at the level of Assistant Professor. The appointment will begin September 1, 2023, subject to administrative and budgetary approval. Please note that this position is in addition to our recently advertised search in biological anthropology in the area of the omics.

The ideal candidate will combine long-term fieldwork on nonhuman primate behavior, ecology, and evolution, with laboratory work, which may involve genetics, genomics, and/or other laboratory measures such as analyses of physiology, immunology, or stable isotopes. The candidate will join the department's highly regarded Center for the Study of Human Origins. The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. New York University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity. The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from members of racialized communities, persons with disabilities, women, and persons who identify as 2SLGBTQ+. Compensation: In compliance with NYC's Pay Transparency Act, the annual base salary range for this position is $90,000 - $140,000. New York University considers factors such as (but not limited to) the scope and responsibilities of the position, the candidate's work experience, education/training, key skills, internal peer equity, as well as market and organizational considerations when extending an offer.

Qualifications: The successful candidate will hold a Ph.D. in Anthropology or a related discipline (e.g., Biology, Psychology) at the time of appointment. The successful candidate will demonstrate strong potential for outstanding teaching contributions at both the undergraduate and graduate levels, and an ongoing commitment to academic and pedagogical inclusive excellence in support of the department's programs. At the undergraduate level, the appointee will be expected to teach introductory as well as more advanced courses in an area of their expertise. At the graduate level, the appointee will teach courses and supervise students as their contribution to the M.S. and Ph.D. programs in Anthropology. The Department of Anthropology provides a strong, supportive, and collaborative research culture, building the research capacity of faculty and graduate students. The Faculty of Arts and Science at NYU is at the heart of a leading research university that spans the globe. We seek scholars of the highest caliber that embody the diversity of the United States as well as the global society in which we live. We strongly encourage applications from women, racial and ethnic minorities, and other individuals who are under-represented in the profession, across color, creed, race, ethnic and national origin, physical ability, gender and sexual identity, or any other legally protected basis. NYU affirms the value of differing perspectives on the world as we strive to build the strongest possible university with the widest reach. To learn more about the FAS commitment to diversity, equality, and inclusion, please read here: https://as.nyu.edu/-departments/facultydiversity.htmlApplication Instructions Applicants should submit: 1) Cover Letter; 2) Curriculum Vitae; 3) one-page Research Statement; 4) one-page Teaching Statement; 5) one-page Statement on Diversity and Inclusion describing past, present, and future contributions to creating inclusive excellence; 6) the names of three referees. Letters of reference are not required and will not be reviewed at the initial application stage. The Department will request letters of recommendation from referees at later stages of the search process where needed. The Department will begin reviewing applications on Dec 1st 2022. The position will remain open until it is filled. For any enquiries, please contact the Department of Anthropology Faculty Administrator, Jaritzi Ramirez atjr6329@nyu.edu.

Apply here: https://apply.interfolio.com/116854 James Higham <jhigham@nyu.edu>

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NorthernIllinoisU TeachingEvolution

Assistant Professor of Biology Department of Biological Sciences - College of Liberal Arts & Sciences Northern Illinois University The Department of Biological Sciences at Northern Illinois University anticipates hiring a tenure track faculty with a focus on teaching biology using evidence-based and inclusive practices. The position is at the assistant professor rank and is a full-time nine-month appointment. The main responsibilities are teaching biology for majors and non-majors, especially at the introductory and intermediate levels, with opportunity also for upper-level course(s) within the candidate's area of expertise. Secondary responsibilities include mentoring and supporting students from diverse backgrounds in undergraduate research projects in the applicant's area of expertise (e.g., cell biology, physiology, ecology, discipline based education 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 with a focus on computational biology and bioinformatics. For more information on that position, see position 6672.

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 and allies in working toward DEI initiatives.

Essential Duties and Responsibilities: - Teaching undergraduate courses in biology for majors and non-majors; - Mentoring undergraduate research projects; - Collaborative service at the department, college, and university levels, and with the community.

Minimum Required Qualifications: - Doctorate in biology or related field; - Dedication to evidence-based and inclusive teaching practices of undergraduate students in biology; - Dedication to teach, mentor, and support students from diverse backgrounds.

Additional Requirements: - Ability to collaborate and communicate effectively with multiple audiences; - Demonstrated record of excellence in teaching biology, which can include as a teaching assistant.

Preferred Qualifications: - Experience using evidence-based and inclusive teaching; - Experience teaching a large course, e.g., 100 students.

Salary: - Salary is negotiable and commensurate with experience and qualifications; position includes a robust benefits package.

Northern Illinois University is a public research university in DeKalb, 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 and LGBTQ+ students, and has been named one of the Great Colleges to Work For 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 data center that uses local access to cloud on-ramps and surrounding energy grids. The proximity of DeKalb to Chicago provides easy access to Chicago's research and technology corridor, the arts, and extensive nature preserves and parks.

Application Procedure: For full consideration, prospective applicants should apply online at https://employment.niu.edu/postings/67315 by December 1, 2022 and upload the following materials: - Cover letter; - Curriculum vitae; - Teaching statement (max 2 pages); - Statement of diversity, equity, and inclusion (max 2 pages); - Statement on possible future undergraduate research (max 2 pages) and; - Complete contact information for three professional references

Applications received after December 1, 2022 are welcomed, but will be considered as needed.

For questions, contact the search committee chair, Dr. Heather Bergan-Roller at hroller@niu.edu

Proposed start date: August 16, 2023. In compliance with the Illinois Campus Security Act, before an offer of employment is made, the university will conduct

a pre-employment background investigation, which includes a criminal background check. In accordance with applicable statutes and regulations, NIIU is an equal opportunity employer and does not discriminate on the basis of race,

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NSM Lausanne ChiefBotanyCurator

(French version below)

Chief Curator of the Department of Botany, Natural Sciences Museum, Lausanne, Switzerland

The Office of Cultural Affairs of the Canton of Vaud is looking for a:

Chief Curator of the Department of Botany (80% permanent contract)

MAIN TASKS Within the Cantonal Museum of Natural Sciences, which houses more than 6 million specimens in its botany, geology and zoology departments, you take part in the management of the Museum as a member of the executive committee. You are responsible for the strategic and operational direction of the botany department as well as the management of human and financial resources. In collaboration with the executive committee and the mediators, you will define the programme of exhibitions and on-site mediation activities of the botany department and ensure their implementation. In addition, you will participate in the development of cross-disciplinary exhibitions in the Museum and the Palais de Rumine. Finally, you will conduct scientific studies and research projects relating to the natural history collections, and maintain and foster relations with all internal and external partners.

REQUIRED PROFILE University degree in botany or equivalent, complemented by a PhD in botany. Additional training in management is an asset. Previous experience in a position of similar responsibility in a science museum. Experience in team leadership and project management. Fluent in written and spoken French. Very good knowledge in written and spoken English. Good knowledge of German is an asset. Ability to manage and develop collections. Proven skills in lead-

ing scientific projects and communicating knowledge to the public. Sense of responsibility and public service ethics, ability to adapt, listening and communication skills, writing skills, organisation and time management, creativity, leadership and managerial skills.

Salary grade: 13

Start date: 1 February 2023 or to be agreed. At the service of movable and intangible heritage, artists and the public, the mission of the Office of Cultural Affairs of the Canton of Vaud is to implement the cultural policy of the Canton of Vaud, which has two components: support for artistic creation and cultural life in the canton and the heritage missions of the cantonal institutions (the cantonal and university library and the cantonal museums).

APPLICATION FILE Office of Cultural Affairs of the Canton of Vaud rh.serac@vd.ch (in one single pdf file) Reference: 1825013

APPLICATION DEADLINE 18.12.2022

INFORMATION Mr Nadir Alvarez Director of the Cantonal Museum of Natural Sciences Tel. 021 316 34 64 nadir.alvarez@vd.ch www.vd.ch/serac ****

CONSERVATEUR-TRICE EN CHEF-FE DU DÃPARTEMENT DE BOTANIQUE 80%

Le Service des affaires culturelles de l'Etat de Vaud recherche un-e :

Conservateur-trice en chef-fe du département de botanique (CDI 80%).

MISSIONS PRINCIPALES Au sein du Muséum cantonal des sciences naturelles, qui abrite plus de 6 millions de spécimens dans le cadre de ses départements de botanique, de géologie et de zoologie, vous participez au pilotage du Muséum en tant que membre du comité de direction. Vous assurez, par ailleurs, le pilotage stratégique et la gestion opérationnelle du département de botanique ainsi que la gestion des ressources humaines et financières. Vous définissez, en collaboration avec la direction et les médiateurs-trices, le programme des expositions et les activités de médiation "sur site" du département de botanique et en assurez la réalisation. En outre, vous participez à l'élaboration des expositions transversales 'Muséum' et du Palais de Rumine. Enfin, vous conduisez des études scientifiques et des projets de recherche relatifs aux collections d'histoire naturelle, et entretenez des relations avec l'ensemble des partenaires internes et externes.

PROFIL SOUHAITÃ Master universitaire en botanique ou titre jugé équivalent, complété par un doctorat en botanique. Formation complémentaire en management souhaitée. Expérience préalable à un poste à respon-

sabilités similaires, acquise au sein d'un musée scientifique. Expérience en conduite d'équipe et en gestion de projets. MaÃtrise orale et écrite du français. MaÃtrise orale et écrite de l'anglais. Bonnes connaissances en allemand souhaitées. Capacité à gérer et développer des collections. Compétences avérées dans la conduite de projets scientifiques et la transmission de connaissances aux publics. Sens des responsabilités et de l'éthique du service public, capacité d'adaptation, écoute et communication, capacités rédactionnelles, organisation et gestion de son temps, créativité, leadership et compétences managériales.

Lieu de travail: Lausanne

Classe salariale: 13

Divers:

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NTNU Trondheim Phylogenetics

The NTNU University Museum is seeking a highly qualified and motivated candidate for an associate professor position in integrative taxonomy and phylogenetics. The position is part of NTNUs ambitious Onsager program and includes substantial research funding with the goal of qualifying for full professor and receive tenure within 6 years.

The position is central to improve the knowledge of species and their evolutionary relationships in taxon rich organism groups and important for strengthening collection-based research at the Department of Natural History. More specifically, the successful candidate will carry out cutting-edge research within the field of taxonomy and phylogenetics using a combination of tools and data (morphological, molecular, ecological, symbiome, etc.) to analyse biodiversity at the species-level.

For more information please see: https://www.jobbnorge.no//en/available-jobs/job/234146/associate-professor-in-integrative-taxonomy-and-phylogenetics Best wishes, Torbjï¿½rn

torbjorn.ekrem@ntnu.no

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OhioU LabTech EvolGenomics

LAB TECHNICIAN POSITION AT OHIO UNIVERSITY'S BIOLOGICAL SCIENCES DEPARTMENT

There is an opening for a Lab Tech in evolutionary genomics of non-model organisms at the Alvarado-Serrano lab. The lab focuses on evolutionary responses to environmental heterogeneity and change and how these responses influence the generation and maintenance of biological diversity. Work in the lab is intrinsically interdisciplinary and multi-faceted and expands upon several fields, including spatial population genetics, conservation genomics, bioinformatics, and biogeography.

The main duties of this position will be processing samples for extraction of high-quality DNA and RNA, PCR amplifications for DNA barcoding, processing and analysis of Sanger sequences, and preparation of genomic libraries for a wide range of organisms and tissue types. Additionally, the person selected would participate in carrying on basic bioinformatic pipelines for assembly and variant discovery and assist in managing the day-to-day operation of the lab.

To apply, please submit Resume or CV, a cover letter, and a list of three professional references at: https://www.ohiouniversityjobs.com/postings/43487 . Diego F. Alvarado-Serrano Assistant Professor Biological Sciences Department Ohio University Website: http://alvarado-s.weebly.com/ "Alvarado Serrano, Diego" <alvarado.s@ohio.edu>

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OklahomaStateU AnatomyVertEvolutionaryMorphology

Job Title: Assistant or Associate Professor of Anatomy and Cell Biology Job ID: req12374

https://okstate.csod.com/ats/careersite/JobDetails.aspx?site=8&id=12374 Job Summary: The Department of Anatomy and Cell Biology of Oklahoma State University Center for Health Sciences invites applications for a tenure-track, full time (12 month)

faculty position at the rank of Assistant/Associate Professor. We seek to hire an outstanding scientist who will develop a creative and innovative research program, attract extramural funding, provide research training for graduate and medical students, and teach in medical and graduate courses, as well as in their specialty. The applicants must have; previous experience teaching in a medical school; proficiency in instructional technology; and interest in teaching collaboratively, and the ability to obtain external funding. Research focused on comparative and evolutionary morphology is of particular interest.

The Oklahoma State University College of Osteopathic Medicine is a state-supported comprehensive medical school whose mission is to train osteopathic physicians to meet the health care needs of the state. The Department of Anatomy and Cell Biology prides itself in state-of-the art interdisciplinary research and excellence in education, including a graduate track in Anatomy and Vertebrate Paleontology sustained by strong Anatomy faculty with research interests broadly distributed in the general areas of vertebrate paleontology and evolution. We team teach in person and using telepresence between the Center for Health Sciences in Tulsa, Oklahoma and the College of Osteopathic Medicine Cherokee Nation campus in Tahlequah, Oklahoma. We seek a colleague who can teach in one or more anatomy courses at the medical school and whose graduate teaching would complement that of the current faculty. Applicants should discuss how they would develop research projects suitable to provide research experience for medical students. The successful applicant will address teaching experiences, history of teamwork, and contribution to graduate education in their letter of application.

The department is interested in and values candidates who have experience working with diverse and underserved populations, and have demonstrated a commitment to improving the diversity, equity, and inclusivity of their academic communities. The successful candidates will be based at the Oklahoma State University Center for Health Sciences campus in Tulsa, Oklahoma.

Environmental Hazards:Classroom teaching and laboratory environment.

Physical Requirements: Ability to lift and carry 50 pounds, stoop, reach, stand, walk, finger, grasp, feel, talk, hear, see, and perform repetitive motions with or without reasonable accommodations.

(If you are viewing this job posting outside of the actual OSU job application website, please go to jobs.okstate.edu to apply and submit a resume.)

Special Instructions to Applicants: Applicants should

submit a letter of application (2-page maximum), statement of research interests including a 5-year plan (2-page maximum), statement of teaching philosophy (2-page maximum), statement of diversity, equity, and inclusion statement (1-page), curriculum vitae, and contact information for three references to: http://jobs.okstate.edu. The letter of application should address how the research program of the applicant will complement current department research strengths (https://medicine.okstate.edu/academics/anatomy-cell-biology/index.html), and strengths of other biomedical researchers. References should be able to address the candidate's experience or potential for excellence in teaching, teamwork, and collegiality. Salary is dependent on qualifications and experience. Laboratory space and start-up packages will be negotiated based on the candidate's needs and record of success. For inquires, contact Daniel Barta, Ph.D., Search Committee Chair, daniel.barta@okstate.edu or 918-525-6323. Review of applications will begin on October 15, the position will remain open until filled.

Position Qualifications: Required: - Ph.D. in Neuroscience, Anatomy, or related field - Postdoctoral research or professional experience - Proficiency in instructional technology - Interest in teaching collaboratively Preferred: -Previous experience teaching in a medical school

Applicants should submit a letter of application (2-page maximum), statement of research interests including a 5-year plan (2-page maximum), statement of teaching philosophy (2-page maximum), statement of diversity, equity, and inclusion statement (1-page), curriculum vitae, and contact information for three references to: http://jobs.okstate.edu. The letter of

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OklahomaStateU EvolutionaryEcology

Open Rank Position in Plant Ecology

The Department of Plant Biology, Ecology, and Evolution at Oklahoma State University in Stillwater (http://plantbio.okstate.edu) seeks a tenure-track faculty member at open rank to begin August 2023. The ideal

candidate will address fundamental questions in Plant Ecology; those who work at the population level or study physiology, population genetics, or interactions with other kinds of organisms (e.g., animals, fungi) are especially encouraged to apply. The position will complement departmental strengths in evolutionary biology, ecology, and cell and molecular biology. The successful candidate is expected to build an innovative, externally-funded research program, and contribute to undergraduate and graduate teaching and mentoring. Effective and engaging teaching of introductory and advanced courses in the candidate's specialty is expected. A Ph.D. in ecology, evolution, plant biology, or a related field is required; postdoctoral experience is expected for hiring as an Assistant Professor with additional experience required as appropriate for hiring at higher ranks. Candidates will be evaluated on their potential to be excellent scholars and teachers and to contribute to the Land Grant mission of Oklahoma State University.

Oklahoma State University is a Carnegie Tier 1 research university with excellent facilities for research and instruction, including core genomics and proteomics facilities and a high-performance computing center. With a location in the ecotone between temperate deciduous forest and Great Plains grassland, OSU is ideally located to access a broad spectrum of ecoregions and remarkable biodiversity, including at the Department's James K. McPherson Preserve. A U.S. Land Grant university, OSU offers diverse opportunities for collaboration with faculty in agriculture, natural resources, engineering, and education. The main campus is in Stillwater, well regarded as one of the friendliest college towns in America. Stillwater offers an exceptionally high quality of life a thriving college community with a low cost of living. Additional campuses are located in Tulsa and Oklahoma City, two major metropolitan areas that offer numerous shopping, dining, and cultural activities within 60 miles.

All applications should be submitted online through Interfolio (http://apply.interfolio.com/113218). Include 1) cover letter, 2) CV, 3) statement of research accomplishments and future objectives, 4) statement of teaching philosophy and goals, 5) statement of experience and philosophy in the areas of diversity, equity, and inclusion, and 6) names and contact information for three references. The Department of Plant Biology, Ecology and Evolution is committed to cultivating a more inclusive and diverse community of scholars (https://-plantbio.okstate.edu/resources/pbee-dei-pledge). Candidates from groups historically excluded and underrepresented in science and academia are especially encouraged to apply. Review of applications will begin November 23, 2022 and continue until position is filled, contingent upon availability of funding. Contact information: Destiny Goree, destiny.goree@okstate.edu, 405-744-5559. http://plantbio.okstate.edu/ . 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 . "mark.fishbein@okstate.edu" <mark.fishbein@okstate.edu>

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PontificiaUCatolicaDeChile EvolutionaryBiology

TENURE-TRACK ASSISTANT OR ASSOCIATE PROFESSOR POSITION IN EVOLUTIONARY BIOLOGY

The Faculty of Biological Sciences (FCCBB) is calling for a full-time Assistant or Associate Professor position on the Regular Staff. The selected person must demonstrate the ability to develop an independent line of research in Evolutionary Biology in areas such as genome evolution, molecular evolution, evolution of biological functions and structures, micro- and macroevolution, evo-devo, evolutionary ecology, community evolution, or cultural evolution, among others. They should also have the competencies to teach biology in the thematic areas indicated, both at the undergraduate and graduate levels, as well as to train researchers.

The Pontificia Universidad Catï¿½lica de Chile is ranked in the top three places in the QS Rankings of Latin American universities. It is committed to equal opportunities, to building an inclusive, diverse and fraternal community and to promoting the academic development of women and men. The FCCBB adheres to these principles and in that context invites applications especially from women scientists.

RESPONSIBILITIES ASSOCIATED WITH THE POSITIONS:

1. To carry out independent research, and of international impact in Evolutionary Biology, either in the

areas indicated or other related areas.

2. To generate interactions and links with researchers from other areas, either in the FCCBB or in other academic units within the university, in order to develop a collaborative and interdisciplinary research work.

3.ï¿½$\frac{1}{2}$ï¿½ ï¿½$\frac{1}{2}$To teach at the undergraduate and graduate levels, teaching theoretical and/or practical classes, collaborating in the design of courses, and serving as a tutor in research units, undergraduate memoirs and graduate theses. The undergraduate teaching will be focused on introductory/basic level courses, oriented to students of the FCCBB careers (Biochemistry, Biology and Marine Biology), and for other careers of the University (e.g. those in the areas of health, pedagogy, college, etc.). If incorporated as an academic, he/she must complete the Diploma in University Teaching dictated by the UC Center for Teaching Development.

4.ï¿½$\frac{1}{2}$ï¿½ ï¿½$\frac{1}{2}$To train professionals and scientists through the direction and supervision of undergraduate theses and doctoral dissertations.

5.ï¿½$\frac{1}{2}$ï¿½ ï¿½$\frac{1}{2}$Obtain external competitive funds to finance their research.

6.ï¿½$\frac{1}{2}$ï¿½ ï¿½$\frac{1}{2}$To participate in academic and administrative activities within the university.

7.ï¿½$\frac{1}{2}$ï¿½ ï¿½$\frac{1}{2}$To carry out extension and outreach activities.

REQUIREMENTS TO APPLY:

- Doctoral degree and postdoctoral experience in the area related to this call for applications. - Demonstrate the ability to develop and lead independent research and obtain extramural research funds. - Have experience in university teaching. - Those who aspire to enter in the category of Associate Professor must accredit completion of a diploma in university teaching or equivalent experience.

SELECTION CRITERIA:

- Academic trajectory, leadership and quality of scientific production. - Mastery of the area of research proposed to be developed at the FCCBB. - Academic references. - Potential for integration into the academic activities of the FCCBB. - Experience in university teaching. - In equal background, priority will be given to women and ethnic minorities.

DOCUMENTS AND PROCEDURE:

1.ï¿½$\frac{1}{2}$ Completed application form, available at: https://biologia.uc.cl/media/2022/11/Application-Form_2022-23-1.docx 2. Must include an academic profile in Web of Science and Google Scholar. 3. Request three confidential letters that make explicit

reference to the candidate's academic trajectory and potential. These should be sent directly to the Academic Secretary of the Faculty to the following e-mail address: secretaria.academica@bio.puc.cl 4.ï¿½$\frac{1}{2}$ï¿½$\frac{1}{2}$ ï¿½$\frac{1}{2}$Copy of the PhD degree.

AVAILABILITY: August-December 2023.

RECEPTION OF APPLICATIONS:

Place: Academic Secretariat, Faculty of Biological Sciences, Pontificia Universidad Catï¿½$\frac{1}{2}$lica de Chile, e-mail: secretaria.academica@bio.puc.cl.

Deadline: January 16, 2023, at 17:00 hours (Santiago local time).

Inquiries: Academic Secretary, Faculty of Biological Sciences, Pontificia Universidad Catï¿½$\frac{1}{2}$lica de Chile, telephone: (56-2)-23542733 e-mail: secretaria.academica@bio.puc.cl, web page: http://www.bio.puc.cl . Foreign applicants: researchers of foreign nationality who apply from

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PrattInstitute NY TeachingEvolutionaryBiology

The Math & Science Department at Pratt Institute is now receiving applications for the chairperson position here:

https://apply.interfolio.com/117099 This is not a rotating appointment; anyone hired would be on a series of three-year contracts and would be guaranteed return to tenured faculty at Pratt upon stepping down.

Pratt Institute students predominantly study in the arts, architecture, and design. Our department supports the general education of these students, who greatly benefit from biomimetic approaches, particularly related to sustainability.

This is an ideal position for someone with a strong background in evolutionary biology who also has leadership experience and is ready to pivot to the next adventure in considering the practical applications of evolutionary thinking and/or making future human societies more

sustainable. Oh, and you would get to live in New York City; it is rarely boring here.

I was Acting Chair of this department for three years, so I know the full landscape and would be happy to offer my guidance (COI statement: I am *not *on the hiring committee, nor an internal applicant!).

-Chris

–

Christopher Jensen, PhD | Associate Professor

PRATT INSTITUTE

Math and Science

200 Willoughby Avenue | Activities Resource Center G 43 | Brooklyn, NY 11205

phone: 718-636-3572 | fax: 718-399-4482 | cjensen@pratt.edu

Pronouns = he, him, his / Please feel free to call me "Chris"

http://www.christopherxjjensen.com/teaching/- courses/the-evolution-of-sex/ https://www.pratt.edu/- about/diversity-equity-inclusion/dei-allies- training-resource-guides/* Christopher Jensen <cjensen@pratt.edu>

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UArkansas PlantEvolutionaryBiology

Tenure-track Assistant Professor in Plant Evolutionary Biology at the University of Arkansas

The Department of Biological Sciences at the University of Arkansas invites applications for a 9-month tenure-track faculty position in Plant Evolutionary Biology at the Assistant Professor level to start August 2023.

We seek candidates with a research focus on evolutionary aspects of plants, broadly defined. Candidates who compliment or expand on current departmental strengths in Ecology and Evolutionary Biology are encouraged to apply. Ph.D. in plant evolutionary biology or related fields and demonstrated research accomplishments are required. Postdoctoral experience is preferred. Successful candidates are expected to establish an extramurally funded research program, teach two courses per year, with one being an undergraduate course in plant diver-

sity and/or systematics.

The Department: The Department of Biological Sciences consists of 34 tenured or tenure-track faculty members conducting research and teaching in the areas of cell biology, ecology, evolutionary biology, genetics, genomics, and microbiology. The department has greenhouse facilities and is also home to the University of Arkansas Herbarium, one of the largest herbaria in the southeastern United States with >125,000 vascular plant specimens (https://fulbright.uark.edu/herbarium). Faculty also maintain and provide support for shared equipment and facilities including microscopy facilities, an isotope lab, and vehicles for field trips. More information about the department can be found at: https:/- /fulbright.uark.edu/departments/biology/. There are additional opportunities for collaboration and graduate recruitment through the Cell and Molecular Biology program (http://cell.uark.edu), Statistics and Analytics program (http://grad.uark.edu/stan), and Center for Advanced Spatial Technologies (CAST; https://- cast.uark.edu). The Arkansas High Performance Computing Center (AHPCC) provides state-of-the-art computing resources.

The University: The University of Arkansas has a large student body (>30,000 students), with doctoral fellowship opportunities supported by the $300 million Walton Foundation Endowment. The main campus in Fayetteville is near the historic city center and located in the heart of the beautiful and biologically diverse Ozark Mountains. Fayetteville is considered one of the country's finest college towns, and northwest Arkansas is regularly ranked one of the best places to live in the U.S. The region offers a multitude of outdoor recreational opportunities and cultural events.

For a complete position announcement and information regarding how to apply, visit https://tinyurl.com/- 3evzyxdr .

All applicants must submit a cover letter, curriculum vitae, teaching statement, research statement, statement of diversity, equity and inclusion detailing the candidate's track record and future plans for advancing DEI, and three email contacts for professional reference letters.

Specific inquiries may be directed to the Search Committee Chair, Dr. Jeremy Beaulieu (jmbeauli@uark.edu). Completed applications received by December 18th will be assured full consideration. Late applications will be reviewed as necessary to fill the position.

The University of Arkansas is an Affirmative Action/EOE institution committed to achieving diversity in its faculty and staff. We encourage applications from

all qualified candidates, especially individuals who contribute to the diversity of our campus community. The university welcomes applications without regard to age, disability, ethnicity, gender identity, genetic information, marital or parental status, national origin, pregnancy, protected veteran or military status, race, religion, sex, sexual orientation, skin color, or any other characteristic protected under applicable federal or state law. Successful candidates 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.

Jeremy Michael Beaulieu <jmbeauli@uark.edu>

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UFlorida PlantEvolutionaryBiology

The Department of Biology at the University of Florida invites applications for a full-time, nine-month, tenure-accruing position at the rank of Assistant Professor in Plant Evolutionary Biology, starting August 16, 2023.

Details are posted below, the link for the posting is here:

https://explore.jobs.ufl.edu/en-us/job/524433/-assistant-professor-in-plant-evolutionary-biology For questions about the position, please email Stuart McDaniel (stuartmcdaniel@ufl.edu)

The successful candidate is expected to develop an internationally recognized research program focused on evolutionary questions at any phylogenetic scale, and contribute to our interdisciplinary and highly collaborative Botany program at the undergraduate and graduate levels.

The successful candidate will address evolutionary questions related to plants or eukaryotic algae at any level of biological organization (metabolites to ecosystems) using genome-scale approaches, and mentor trainees at all levels. The candidate is expected to teach courses in modern comparative biology or evolutionary genomics at the graduate level and courses in the undergraduate Botany major (e.g., Practical Plant Taxonomy;https:/-/botany.biology.ufl.edu/courses/undergrad/).The Department of Biology highly values candidates with professional or lived experiences that enhance competency in teaching, training, and mentoring students from backgrounds that span and intersect all axes of diversity.

The Department of Biology particularly welcomes applicants who can contribute to a diverse and inclusive environment through their scholarship, teaching, mentoring, and professional service. Please seehttps://-diversity.clas.ufl.edu/diversity-statement/for more information about diversity and inclusion in the College of Liberal Arts and Sciences. The university and greater Gainesville communities enjoy a diversity of cultural events, restaurants, year-round outdoor recreational activities, and social opportunities.

A complete application includes (1) a letter of application summarizing the applicant's qualifications, interests, and suitability for the position, (2) a completecurriculum vitae, (3) an up to two-page Research Statement, (4) an up to two-page Teaching Statement, (5) an up to two-page Diversity Statement focused on inclusivity, diversity, equity, and accessibility; and (6) a list of at least three references. The Research, Teaching, and Diversity Statements should each provide specific details on prior experience/accomplishments and future goals/plans. After initial review, confidential letters of recommendation will be requested from references.

Applications will be reviewed beginning December 1, 2022, and the position will remain open until filled. Only complete applications will be reviewed at this time. Applications received after this date may be considered at the discretion of the committee and/or hiring authority.

All candidates for employment are subject to a pre-employment screening which includes a review of criminal records, reference checks, and verification of education.

The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff. Searches are conducted in accordance with Florida's Sunshine Law. If an accommodation due to disability is needed in order to apply for this position, please call (352) 392-2477 or the Florida Relay System at (800) 955-8771 (TDD).

"McDaniel, Stuart" <stuartmcdaniel@ufl.edu>

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UHawaii QuantitativeBiologist

https://www.schooljobs.com/careers/hawaiiedu/jobs/-3814636/assistant-professor-quantitative-biologist-i3 The School of Life Sciences (SoLS) at the University

of Hawaiï¿½i at M?noa welcomes applications for the position of Assistant Professor in Quantitative Biology. Candidates whose research incorporates plant diversity and systematics, marine biology, or conservation are particularly encouraged to apply, but candidates with research programs in any area of the life sciences will be considered. The successful candidate will join an integrative life sciences program with broad interests in evolution, ecology, conservation, cell and molecular biology, offering undergraduate and graduate degree programs in Biology, Botany, Microbiology, Marine Biology, Cell and Molecular Biology, and Zoology.

The School of Life Sciences hosts the largest academic program on the University of Hawaiï¿½i's flagship campus, serving over 1,500 undergraduate majors and 150 graduate students for degrees in biology, botany, marine biology, microbiology, molecular cell biology, and zoology. UHM is a Native Hawaiian place of learning and a Carnegie Research 1 University with a strong emphasis on research and graduate education. Our vision is to be locally and globally recognized as a premier student-centered and community-serving university. UHM adheres to fair and inclusive recruitment and hiring procedures, and is a campus committed to diversity, equity, and inclusion excellence.For more information on the M?noa Strategic Plan, visit https://-manoa.hawaii.edu/strategicplan/. For more information on the school, please visit https://manoa.hawaii.edu/-lifesciences/ . Duties and responsibilities: - Establish a vigorous, extramurally funded research program in quantitative biology to conduct research on fundamental problems in the life sciences using advanced computational and statistical approaches. - Produce scholarly publications in leading academic journals in areas of expertise, and providing mentoring for postdoctoral scholars, and undergraduate and graduate students. - Contribute to the school's curricula by developing and teaching new courses in quantitative methods for undergraduate and graduate students in the life sciences, assisting in strengthening the teaching of quantitative reasoning using computational tools throughout the curricula. - Serve on university committees and perform related tasks as assigned, and collaborating with scientists in the School of Life Sciences and the University of Hawai?i community.

Minimum Qualifications: - Ph.D. in Biology, Computer Science, Statistics/Mathematics, or a related field at the time of appointment from a college of university of recognized standing. - Strong research record in quantitative biology. - Demonstrated ability to teach undergraduate and graduate courses in one or more aspects of statistics, and have a track record of collaborative research with biologists. - Candidates must also provide evidence of research productivity, publication of scholarly materials, and commitment to diversity and equity.

Desired Qualifications: - Postdoctoral research and evidence of ability to obtain extramural funding. - Interests that complement existing strengths in the department. - Ability to work in an ethnically rich, multicultural environment. - Potential to promote our commitment to a safe and inclusive campus environment.

To Apply: Click on the "Apply" button on the top right corner of the screen and attach the required documents.

Applicants must submit as a single pdf file: - Cover letter specifying the position and addressing your qualifications - Statement of research interests, activities, and plans (2-3 pages) - Statement on teaching philosophy, interests, and plans (1-2 pages) - Curriculum vitae detailing research, teaching, and service accomplishments - Copies of up to three relevant publications - Names, addresses, e-mail, and telephone numbers of three professional references, including at least one to address teaching experiences and capabilities

Content addressing the candidate's approach and commitment to diversity, equity, and inclusion should be directly incorporated into the research and teaching statements. Additional information about M?noa's Strategic Vision as a Native Hawaiian place of learning can be found here: https://manoa.hawaii.edu/strategicplan/ . Official transcripts with proof of degree conferred will be required

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UKonstanz IntlFieldworkCoordinator EvolutionBehaviour

The newly founded Department for the Ecology of Animal Societies led by Prof. Meg Crofoot is a joint institution of the University of Konstanz with the nearby Max Planck Institute of Animal Behavior and has an open position for an

International Fieldwork Coordinator (part-time 50 % - fulltime, E 13 TV-L).

The department embraces an explicitly collaborative approach to scientific exploration. Its multidisciplinary team works together to develop new ways of measuring, analyzing and interpreting the behaviour of socially complex animal species in ecologically and evolutionarily relevant field settings. To understand the causes and consequences of social variation, the department takes comparative approach, analyzing social interactions from dyad to group to population within and between species. Our working language is English and consequently applicants must be fluent in this language. We are searching for an International Fieldwork Coordinator who will work with members of the department to facilitate our field-based research. The successful candidate will be the central contact person for all international field research activities and animal experiments and will support department scientists in research planning, permissions, logistics and reporting. In addition to the coordination and organization of the departmental activities at the different international field sites, she/he will be responsible for implementing safety trainings and protocols and ensuring compliance with national and international regulatory requirements. We seek a candidate who is committed to supporting and potentiating our worldclass research programme, has strong organizational skills, and has a demonstrated capacity for effective cross-cultural communication. Prior experience with international, field-based research in ecology, animal behaviour or related fields is desirable, as are Spanish, French and/or Swahili language skills.

Your Responsibilities

* Coordination of the departmental activities at international field sites * Support in planning and organizing animal experiments and field trips, including required licenses and ethical approvals * Ensuring compliance with international and national regulatory requirements * Supporting the drafting of international collaboration agreements * First point of contact for international partners * Coordination of safety trainings, implementation of safety protocols and fieldwork emergency support response * Support in export control including logistics * Documentation and archiving of research records and experimental data * Coordinate workshops (e.g., ethics, safety) * Manage the research equipment inventory and deployment * Assist in the development of collaborative agreements and serve as the primary liaison between the various international field sites and the University of Konstanz and the Max Planck Institute of Animal Behavior

Your Competencies

* Graduate degree (Master or PhD level) in biology, ecology, anthropology, or a related field * Excellent interpersonal and intercultural skills, and a desire to work as part of a service oriented team * Ability to work with the Director as part of a leadership team * Strong organizational and communication skills * Experience in international field work and/or environment * Knowledge of animal ethics beneficial * Excellent English and German skills in speaking and writing

We Offer

* A vibrant, interdisciplinary research community * A global hotspot for the integrated study of animal behaviour across a wide range of species and across scales of organization * Good development opportunities, extensive training and an attractive remuneration package * Classification according to the tariff regulations of TV-L (depending on the personal prerequisites up to pay group E 13 TV-L)

For further information please see:

https://stellen.uni-konstanz.de/jobposting/-2a8fbac4905cd08d6794620397a745b799ede7420   . maeggi.hieber@uni-konstanz.de

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UMissouri Columbia EvolutionOrganismEnvironmentInteractions

Assistant professor (tenure track)-Organism Environment Interactions

Full job ad with links for submitting application and other information is available at https://-biology.missouri.edu/news/assistant-professor-tenure-track-organism-environment-interactions The Division of Biological Sciences (DBS) at the University of Missouri-Columbia seeks an outstanding individual with an innovative and integrative research program spanning multiple disciplines, that would extend and complement existing faculty strengths in DBS. We recognize the need for fostering a diverse and inclusive community, in order to achieve our core values of excellence in education and research. A successful candidate is expected to contribute to this core value by engaging in mentoring activities to support our efforts, with particularly an ability to directly provide mentorship to students and trainees from underrepresented groups. Thus, DBS is committed to increasing the representation of historically underrepresented

minorities across all levels of its community.

We seek applications from candidates using integrative approaches to study interactions between organisms and their environment, broadly defined across molecular, cellular, organismal, and ecological scales. We are particularly interested in candidates using quantitative approaches and who view themselves in an Integrative Biology context. The candidate is expected to establish a vigorous, externally funded research program, and to teach at the graduate and undergraduate levels. Also, candidates are expected to synergize with the broad range of research areas within DBS, including plant biology, microbiology, neurobiology, and behavior. We expect this hire to be part of a cluster of at least two hires in this research area within 3 years.

Minimum qualifications include a Ph.D. in biology or related field at the time of appointment. Candidates will be evaluated on their work on organism-environment interactions, especially those employing innovative and integrative approaches.

Application Applications will be evaluated with an initial blind review process that focuses on the three required statements, independent of CV and cover letter, beginning with the inclusion and equity statement. Applicants should include the following documents for review:

- a cover letter describing their interest in the position; - a statement outlining the applicant's previous contributions to inclusion and equity, and/or how they plan to contribute in future such efforts at MU. As part of this statement, applicants should include: a section outlining their mentorship experience, how they will provide an equitable and inclusive environment for their research lab members, and how their personal and professional experience shapes their contributions to inclusion and equity; - a statement that outlines relevant teaching interests, philosophy, experience, and approaches, and if available we welcome evidence of previous teaching effectiveness; - a research statement including a summary of past work and a description of the applicant's future research direction, with language that addresses the integrative and synergistic nature of their work in the context of our department; - a curriculum vitae; - contact information for 3 letters of reference. Review of applications will commence December 20, 2022, and continue until the position is filled. We anticipate a first round of Zoom interviews to take place in mid-January.

Applicants wishing to apply should do so here (https://erecruit.umsystem.edu/-psp/tamext/COLUM/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&SiteId=-

9&FOCUS=Applicant&SiteId=9&JobOpeningId=-44444&PostingSeq=1).

Questions may be addressed to the Division Director (Dr. David Schulz, schulzd@missouri.edu).

Benefit Eligibility This position is eligible for University benefits. The University offers a comprehensive benefits package, including medical, dental and vision plans, retirement, and educational fee discounts. For additional information on University benefits, please visit the Faculty & Staff Benefits website.

Diversity Commitment The University of Missouri is fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence.

Equal Employment Opportunity Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and

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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

UppsalaU Genomics

The department of Ecology and Genetics at Uppsala University, Sweden, is seeking to hire an Assistant Professor in Genomics of Adaptation to Climate Change.

Uppsala University is a comprehensive research-intensive university with a strong international standing. The ideal candidate conducts research related to the genomics of adaptation to climate change and can capitalize on the breath of expertice at the Department of Ecology and Genetics (www.ieg.uu.se). The position is funded by SciLifeLab (https://www.scilifelab.se) and comes with a generous start up package that will allow for the recruitment of a team.

The position can be held for a maximum of six years. An Assistant Professor can apply for promotion to Associate Professor. If the Assistant Professor is deemed suitable and fulfills the criteria for promotion established by the Faculty Board he/she shall be promoted to and employed as Associate Professor.

Please submit your application by 31 January 2023 (UFV-PA 2022/3232).

For more information and to upload your application, please see https://www.uu.se/en/about-uu/-join-us/details/?positionId=541995 For further information about the position, please contact: Head of department, Anna Rosling, +46(0)18 741 6444, Anna.Rosling@ebc.uu.se or Head of program in animal ecology, Frank Johansson, +46(0)18 741 6488, Frank.Johansson@ebc.uu.se

Claus Rueffler Associate Professor

Department of Ecology and Genetics Animal Ecology Uppsala University Norbyvï¿½gen 18D 752 36 Uppsala Sweden

Phone: +46-(0)18-471 2639 https://-clausrueffler.github.io/ Nï¿½r du har kontakt med oss pï¿½ Uppsala universitet med e-post sï¿½ innebï¿½r det att vi behandlar dina personuppgifter. Fï¿½r att lï¿½sa mer om hur vi gï¿½r det kan du lï¿½sa hï¿½r: 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 Claus Rï¿½ffler <claus.rueffler@ebc.uu.se>

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UPrimorska Slovenia WildlifeGenomics

The University of Primorska invites applicants for a three-year tenure track faculty position. We seek candidates with a PhD in Life Sciences(molecular biology, ecology, biology, forestry, veterinary, biochemistry etc.). Applicants with experience in wildlife genomics will have priority; postdoctoral and teaching experience are required. Work position is classified in 46th salary grade, from 1st April 2023 onward in 47th salary grade. Trial work is three (3) months.Expected starting date is February 2023 (https://www.famnit.upr.si/en/news/-assistant-professor)

The candidate will become member of the Molecular Ecology group at the Department of Biodiversity in the Faculty of Mathematics, Natural Sciences and Information Technologies. The group uses molecular tools to investigate many different topics and species, from wildlife monitoring to adaptation, and from conservation biology to wildlife management. The group has a keen interest also in citizen science in wildlife monitoring.

Your tasks:

A selected candidate will contribute to the management of national and international research projects and maintain and promote open science practices. The candidate will also teach a minimum of 1 course per semester, train, and supervise students. Work environment will include also international travel due to project meetings.

Your profile:

A relevant university education with a completed doctoral/PhD degree and a strong potential in research.Experience with conducting population genomics analyses is preferred but not required.Exceptional organizational skills and strong ability to accomplish tasks independently.Teaching or supervision experience required. Excellent spoken and written English is required.

Application instructions: Interested applicants are requested to send the application in electronic form to razpisi@famnit.upr.si and "Tenure-track position" in the object.

Please attach in pdf format:

A cover letter explaining your interest in the position and how you fit the description a CV a list of publications highlighting the five most relevant ones.

Application deadline:23rd December 2022

Elena <elena.buzan@famnit.upr.si>

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UPuerto Rico Mayaguez EvolutionaryVirology

The University of Puerto Rico Mayagï¿½ez Campus seeks candidates for instruction and research in Virology at the rank of Assistant Professor.

MINIMUM REQUIREMENTS Doctoral degree in Virology or a related field from an accredited institution or completion of all requirements by date of hire. Demonstrated excellence in teaching and research. Effective oral and written communication skills in Spanish or English. Bilingual candidates are preferred.

JOB DESCRIPTION AND DUTIES The selected person will teach undergraduate and graduate courses according to departmental needs. Courses could include, but are not limited to: General Biology, Animal Biology, Virology, Clinical Microbiology, and Molecular Biology. The selected person must update and revise existing courses, design and develop new courses in their area of expertise, as well as offer previously created courses that are not currently offered. In addition to teaching undergraduate and graduate courses, the successful candidate will supervise undergraduate and graduate research, coordinate teaching laboratories, attend college and departmental meetings, actively participate in departmental and campus-wide committees, and develop and maintain a successful, externally funded research program in their area of expertise. External funds, when obtained, will allow eligibility for release time during the academic year to a maximum of half the teaching load (6 credit hours out of a minimum of 12 credit hours per semester). Furthermore, since our institutional mission includes education, research, and service, faculty are expected to publish and present research work at conferences and in peer-reviewed journals, mentor undergraduate and graduate researchers, engage in professional and community service, and support institutional initiatives.

HOW TO APPLY Interested candidates must send their curriculum vitae, graduate and undergraduate transcripts, statements of research and teaching plans, and three (3) letters of reference before November 9, 2022, to director.biol@uprm.edu. For further information, please contact:

Chair, Biology University of Puerto Rico, Mayagï¿½ez Campus Department of Biology, School of Arts and Sciences Phone (787) 832-4040, Ext. 3837 Email: director.biol@uprm.edu

https://www.uprm.edu/empleos/en/2022/09/08/22-03en/ Sean Locke <sean.locke@upr.edu>

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USanFrancisco EvolutionaryGenetics

Job Title: Assistant Professor, Tenure-Track, Genetics, Department of Biology

Job Summary: The Department of Biology at the University of San Francisco invites applications for a full-time tenure-track Assistant Professor in the field of genetics to begin August 2023, contingent upon funding approval. We are interested in candidates with research programs utilizing experimental and/or molecular approaches to understand the genetics of model organisms (or emerging model organisms), including microbes, plants, or animals.

Full Job Description: Job Responsibilities: The successful candidate will be dedicated to excellence in undergraduate teaching and will be expected to teach Genetics, General Biology, upper division courses in Evolution or Ecology, and other courses in specific areas of the candidate's academic expertise. The candidate should be committed to involving undergraduates in an independent research program and will be expected to apply for extramural funding for support.

Minimum Qualifications: The successful candidate will have a Ph.D. in Biology or a related discipline earned by August 2022, teaching experience, post-doctoral experience, and evidence of research skills and scholarship. A strong record of teaching at the university level and an understanding of and commitment to support the mission of the University of San Francisco are required. The successful candidate must be able to offer their reflection on equity and strategies for success in engaging with BIPOC students.

Applicants should submit a cover letter summarizing interests and qualifications, a curriculum vitae, a statement of teaching philosophy and interests, evidence of teaching ability (e.g., sample syllabi and teaching evaluations), a statement of research interests, a diversity statement (which may include your thoughts and/or experiences concerning equitable education for underserved and marginalized communities, your commitment to or experience with broadening participation and accessibility in the field, and/or experience and success in engaging with BIPOC students), and three letters of recommendation (requested upon submission of application). Any questions may be addressed to biologysearch@usfca.edu. Review of completed applications will begin on November 15, 2022 and continue until the position is filled.

The University of San Francisco is seeking to hire a cohort of new faculty whose scholarship and/or community-engaged research and creative work focuses on the experiences of Black and Latinx communities, or antiracism, diversity, equity and inclusion more generally, and who have proven expertise and experience in mentoring Black, Latinx and underrepresented students.

USF is entering into the second year of a faculty diversity hiring initiative; in the first year, 70% of new

full-time faculty hires were faculty of color. Junior BIPoC faculty are invited to participate in mentoring, community building and peer to peer opportunities coordinated by the Vice Provost for Equity, Inclusion and Faculty Excellence. Faculty also enjoy peer support through affinity groups such as the Asian and Asian American Staff/Faculty Council < https://myusf.usfca.edu/aaasfc >, Black Community Council < https://myusf.usfca.edu/black-community-council >, LGBTQ Caucus < https://myusf.usfca.edu/lgbtq-caucus > and La Colectiva of Latinx Staff and Faculty < https://myusf.usfca.edu/la-colectiva-latinx >.

John R. Paul, Ph.D. Associate Professor Department of Biology University of San Francisco 2130 Fulton Street San Francisco, CA 94117

"John R. Paul" <jrpaul@usfca.edu>

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USDA ForestService QuantGeneticist

Dear EvolDir Colleagues,

The USDA Forest Service, Pacific Northwest Research Station is ADVERTISING for a Research Geneticist (Quantitative) with the Genetics and Silviculture Foundations of Management Team. The position will be located at the Forestry Sciences Laboratory in Corvallis, Oregon, and it is advertised at the GS-12 ($84,923/yr) or GS-13 ($100,984/yr) grade, depending on qualifications. Please share widely with anyone you think may be interested!

Announcement Link: https://www.usajobs.gov/GetJob/ViewDetails/687518100 Application Period: November 7th (today) through the November 21st (11:59 pm eastern time)

We anticipate that the scientist will use quantitative genetic approaches for: (1) discovering, quantifying, and predicting forest plant responses to climate and determining genetic contributions to local adaptation; (2) designing selection regimes within and among populations to maintain and improve forest productivity; (3) devising management strategies that maintain or enhance long-term productivity of forest ecosystems under anticipated climate change; and (4) developing gene conservation strategies for forest plant resources.

The incumbent has latitude to identify research topics and implement studies and is expected to be a productive and self-directed participant in multidisciplinary, team-oriented research projects. Research studies will provide opportunities to collaborate with scientists in government, industry, and academia. Applicants can specialize in other disciplines (e.g., ecology; silviculture), but they must meet minimum educational and/or experiential qualifications for the Geneticist (0440) series with the Professional and Scientific Group Standard at the GS-12 level. Current United States citizenship is required.

If applicants have questions, they can reach out to Rich Cronn (richard.cronn@usda.gov) or Rob Slesak (robert.slesak@usda.gov).

Richard Cronn, PhD Research Geneticist USDA Forest Service p: 541-750-7291 richard.cronn@usda.gov (old: rcronn@fs.fed.us) Pacific Northwest Research Station 3200 SW Jefferson Way Corvallis, OR 97331 www.fs.fed.us Caring for the land and serving people 70 years of Genetics/Silviculture publications https://www.fs.fed.us/pnw/olympia/silv/publications/index.shtml evoldir@evol.biology.mcmaster.ca

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UTexas Arlington EvolutionaryGenomics

ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY - GENOMICS

JOB SUMMARY The Department of Biology in the College of Science at the University of Texas (UT) at Arlington (http://www.uta.edu/biology/) invites applications for a tenure-track faculty position in Genomics at the level of Assistant or Associate Professor. Candidates will join an interactive collegial Genome Biology Group at UTA. Research areas of interest include but are not limited to evolutionary genomics, functional genomics, and systems biology, population genomics, human genomics, and single-cell-omics.

ESSENTIAL DUTIES AND RESPONSIBILITIES We seek candidates who utilize experimental or computational approaches to investigate fundamental questions at any scale, ranging from molecular processes to cellular organization and function, to organismal evolution and development, to the links between genotype and

phenotype.

Required Qualifications Successful candidates will have a doctoral degree in a relevant field and will be expected to develop a nationally recognized, extramurally funded research program, as well as teach at the undergraduate and graduate (Master's and Ph.D.) levels.

SPECIAL CONDITIONS FOR ELIGIBILITY Start-up funds, salaries, and teaching loads are highly competitive. We are deeply committed to increasing diversity and especially encourage applications from women and minority scholars.

UNIVERSITY INFORMATION The University of Texas at Arlington is located in the heart of the Dallas-Fort Worth-Arlington metroplex, a vibrant and diverse metropolitan area that is home to over 7 million people, one of the fastest-growing tech economies in the United States, and a wide array of arts, entertainment, and cultural activities. UTA is a comprehensive teaching, research, and public service institution dedicated to the advancement of knowledge through scholarship and creative work. The University is committed to providing access and ensuring student success, and to a culture of innovation, entrepreneurship, and commercialization of discoveries by our community of scholars. With an enrollment of approximately 46,000 students, UTA is the largest institution in North Texas and the second largest in the UT System. As a result of its combination of rigorous academics and innovative research, UTA is designated as a Carnegie R-1 "Very High Research Activity" institution and as a Texas Tier One institution. In 2021, UTA received the Higher Education Excellence in Diversity Award for its deep commitment to diversity, equity, and inclusion in higher education. UTA ranks No. 4 nationally in Military Times' annual "Best for Vets: Colleges" list and No. 1 in Texas for the number of degrees awarded to African American students (Diverse: Issues in Higher Education, 2021). UTA is designated by the U.S. Department of Education as both a Hispanic Serving Institution (HSI) and an Asian American and Native American Pacific Islander-Serving Institution (AANAPISI), and it has the fifth-most ethnically diverse undergraduate population in the United States (U.S. News & World Report, 2023). UTA is among the top 50 performers nationwide for promoting social mobility of its graduates (U.S. News & World Report, 2023), and its approximately 250,000 alumni, including some who occupy leadership positions at many of the 23 Fortune 500 companies headquartered in North Texas, contribute to the UTA's $22.2 billion annual economic impact on Texas.

DEPARTMENT AND COLLEGE INFORMATION The UT Arlington campus houses the newly established North Texas Genome Center (including multiple Illumina Novaseq instruments), and the Shimadzu Institute for Research Technologies (including instruments for advanced imaging, mass spectrometry, proteomics, and analytical chemistry). The department and university have numerous resources including state-of-the-art research labs, an Animal Care Facility, a Life Sciences Core Facility, an Amphibian and Reptile Diversity Research Center housing specimen and tissue collections, and affiliations with the Botanical Research Institute of Texas (BRIT). The department also benefits from additional access to University of Texas System genomics and computational facilities at UT Southwestern Medical Center and the Texas Advanced Computing Center (TACC) - one of the leading advanced computing centers in the U.S. Excellent opportunities exist at UT Arlington and in the Dallas-Fort Worth Metroplex for collaborations with researchers in microbiology, ecology, evolution, cell biology, genomics, biochemistry, and biomedical sciences.

DIVERSITY STATEMENT Successful candidates are expected to demonstrate a commitment to diversity and equity in education through their scholarship, teaching, and/or service as well as a strong commitment to teaching, advising, and mentoring undergraduate and graduate students from diverse backgrounds. For more information on UT-Arlington's diversity

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UTexas RioGrandeValley PopGenetics

Assistant Professor of Biology, UTRGV Brownsville campus

https://careers.utrgv.edu/postings/36103 We seek applicants who are dedicated to serving The University of Texas Rio Grande Valley's diverse student body as an Assistant Professor of Biology beginning in the 2023-2024 academic year (start Sept 1, 2023). The successful candidate will have a Ph.D. in Biology or a related field, postdoctoral experience, and an excellent track record in research that indicates a strong potential for attracting extramural funding. The position will be lo-

cated on the Brownsville campus and will be a joint appointment between Biology (home department) and the School of Earth, Environmental, and Marine Sciences (SEEMS; minority appointment). Applicants may work on any taxonomical system with a focus including, but not limited to: animal behavior or behavioral ecology, ecological physiology, population genetics, or wildlife biology. We encourage applicants who will leverage the unique ecosystems, either terrestrial or aquatic, of the Tamaulipan biotic province encompassing south Texas and northeastern Mexico. Applicants should clearly articulate a vision for building an extramurally funded student-centered research program involving both undergraduates and master's students, and a commitment to educating a diverse body of students at a Hispanic Serving Institution. We welcome candidates who will contribute to the Biology department's strategic plan to build a Ph.D. program within the next 3-5 years. The UTRGV Department of Biology and SEEMS are committed to cultivating a culture of inclusion and diversity, and especially welcome applications from candidates who can contribute to the diversity of the departments.

Considered a biodiversity hotspot, Lower Rio Grande Valley and the surrounding region lie at the confluence of the desert, temperate, and tropical biomes, which have undergone significant fragmentation due to agricultural expansion and subsequent urbanization. Multiple understudied environments exist that are ripe for developing a research program that spans coastal, deltaic, riparian, and upland habitats with disturbance statuses ranging from degraded to restored to managed to pristine. The region boasts over half the US bird species, 42% of all U.S. butterfly species, and 45 federal and state threatened or endangered species. Within a 150-mile radius, there are multiple National Wildlife Refuges, State Parks, and private reserves, even as industrialization (e.g., SpaceX, LNG, Port of Brownsville) continues. The region is also projected to become a hotspot for ecological restoration. Work in the region is supported by federal, state and local sources (e.g., TPWD, USFWS, TxDOT, USDA, NOAA, NSF, private foundations).

Diversity and inclusion are part of our core values and as such, we encourage applications from women and members of underrepresented groups in the sciences. It is our commitment to elevate the lives and economic well-being of the Valley community by offering first-rate education in the STEM fields. We value applicants who can understand and have overcome race, gender-based, and ability-based barriers, and who can bring with them the wealth of worldview, perspective, and experience that is critical to an innovative and accessible educational environment. As a federally designated Hispanic Serving Institution with a student population that is

over 90% Hispanic, UTRGV is committed to preparing its students to succeed, contribute and excel in an increasingly diverse, global, and interconnected world. Applicants who identify with this mission are strongly encouraged to apply.

To apply, please visit https://careers.utrgv.edu/postings/36103. Applicants should submit a cover letter, curriculum vitae, research plan (2 page maximum), statement of teaching philosophy (2 page maximum), and the names & contact information of at least three professional references. Inquiries regarding the position may be directed to Bradley Christoffersen (bradley.christoffersen@utrgv.edu), search committee chair. Review of applications will begin on Nov 18, 2022. To receive full consideration, applications should be received by Nov 30, 2022.

About UTRGV: It is UTRGV's Vision "To be one of the nation's leaders in higher education, its premier Hispanic-serving institution, and a highly engaged bilingual university, with exceptional educational, research, and creative opportunities that serve as catalysts for transformation in the Rio Grande Valley and beyond." As such, UTRGV is committed to building a diverse faculty and staff that can contribute to an enriching learning environment that strives for more equitable outcomes for student success.

UTRGV is a distributed campus, one university spanning four counties and multiple locations. Our purpose is to be a university for the entire Rio

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UVermont TeachingPlantEvolution

The Department of Plant Biology at the University of Vermont (UVM) invites applications for a full time, non-tenure track lecturer < https://www.uvmjobs.com/postings/58430 > starting in August 2023. The Plant Biology Department has an active teaching program with award-winning faculty and a vibrant undergraduate community. The department is home to the Pringle Herbarium, Proctor Maple Research Center, Field Naturalist Master's Program, and Ph.D. Graduate Program.

Teaching expectations are 4-6 courses per year; these will likely include introductory botany, general biology, and sophomore-level courses for majors, such as Plant Anatomy and Plant Systematics. We encourage creativity in our instructional faculty and the potential exists to design your own course for majors or non-majors. The right candidate could also teach a graduate field botany course for students in the Field Naturalist Program. Advising and mentoring undergraduate students, and service contributions to the Department and University are also expected.

UVM is an educationally purposeful community seeking to prepare students to be accountable leaders in a diverse and changing world. We seek a new faculty member who can advance the values of Our Common Ground < https://www.uvm.edu/president/our-common-ground > (i.e., openness, respect, responsibility, integrity, innovation, and justice) through their teaching and service. We are specifically searching for a colleague with demonstrated excellence in undergraduate teaching and advising, as well as the potential to collaborate with other faculty in the department. Furthermore, we seek a colleague who shares our commitment to mentoring and supporting students and colleagues from diverse backgrounds and to developing more inclusive and equitable academic practices.

QUALIFICATIONS Applicants should hold a Ph.D. degree with an emphasis on plant biology. We seek a dedicated and inspiring new faculty member whose teaching expertise focuses on plants at the organismal level. Successful applicants will have a demonstrated commitment to equity and inclusion in their professional endeavors. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Applications from women, veterans, individuals with disabilities and people from diverse racial, ethnic, and cultural backgrounds are encouraged.

APPLICATIONS Interested candidates must apply online at https://www.uvmjobs.com/postings/58430. Please upload a PDF file containing the following, separate elements: 1) A cover letter describing your interest in and qualifications for this position; 2) A current curriculum vitae; 3) A teaching philosophy statement; 4) A statement on how you will contribute to advancing diversity and inclusive excellence at the University of Vermont; 5) The names and email addresses of three references who can be contacted for letters of support before a candidate is advanced in the search process. All required materials must be submitted to receive consideration. After the initial review of applications, references may be contacted to submit their letters directly to the search committee chair. Review will begin on November 15, 2022 and will continue until the position is filled. We anticipate a start date of August 2023. Salary will be set at a level appropriate to the successful applicant's qualifications and experience. Inquiries about the position should be addressed to: Laura Hill, Ph.D.; Senior Lecturer in Plant Biology (Search Committee Chair) Laura.Hill@uvm.edu.

UVM is in Burlington, Vermont, rated as one of the best small cities in America, which provides an environment rich in cultural and recreational activities for individuals and families. The greater Burlington area has a population of about 125,000 and enjoys a panoramic setting on the shores of Lake Champlain, between the Green Mountains of Vermont and the Adirondack Mountains of New York. The unique geographic location has a broad array of intact natural communities for study, and a unique agricultural enterprise incorporating small-scale, local-source approaches into its food system. The region is recognized internationally by the United Nations (UN) as both a Regional Center of Expertise in Education for Sustainable Development, and as the Champlain-Adirondacks Biosphere Reserve.

Laura.Hill@uvm.edu

"Laura.Hill@uvm.edu" <Laura.Hill@uvm.edu>

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UWisconsin Madison EvolutionaryAdaptation

ASSISTANT PROFESSOR OF BOTANY The Department of Botany at the University of Wisconsin-Madison seeks outstanding candidates for a tenure-track assistant professorship in fundamental research on plants, algae, or fungi in rapidly changing environments, including biological resiliency and/or conservation genetics. Research and teaching at the molecular, physiological, genomic, population genetic, ecological, or ecosystem levels will be considered. Successful candidates will connect with existing research activities in the Departments of Botany and Integrative Biology (iBio) within the College of Letters & Science. Candidates must have a proven track record of innovative and high-impact research and are expected to build a vigorous, well-funded research program with international profile.

Responsibilities: The candidate will be expected to perform high-quality teaching at all levels, including undergraduate and graduate level instruction. Mentorship

of undergraduates in the Botany and/or Conservation Biology majors as well as supervision of graduate thesis research are expected. The candidate must support the department's ongoing commitment to advance diversity, equity, and inclusion. Besides conducting high-impact scholarly research, the candidate will be expected to provide service to the department, college, university and academic community nationally or internationally.

Institutional Statement on Diversity: Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

Applications Open: November 9; Open until filled

Anticipated Begin Date: AUGUST 21, 2023

Contact: Julie Olson, jkolson2@wisc.edu

Refer to this link for more information: https://jobs.hr.wisc.edu/en-us/job/516102/assistant-professor-of-botany Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

http://carollee.labs.wisc.edu carollee@wisc.edu

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Biology (iBio) within the College of Letters & Science.

Candidates must have a proven track record of innovative and high-impact research and are expected to build a vigorous, well-funded research program with international profile. See full description of position here: https://jobs.hr.wisc.edu/en-us/job/516102/assistant-professor-of-botany UW Botany is among the top botany departments in the world. UW-Madison is highly ranked and one of the ten largest research universities in the US, and typically within the top five in terms of research output. Madison itself is often voted one of the most livable cities in the country, including a vibrant cultural center, many natural areas, and numerous opportunities for outdoor recreation on land and lakes.

Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

http://carollee.labs.wisc.edu   Carol   Eunmi   LEE <carollee@wisc.edu>

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UWisconsin StevensPoint FisheriesGenomics

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 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, as well as opportunities to write grant proposals and to author research publications. The position will be renewed annually given funding availability and favorable annual reviews of research progress.

Position requires MS or PhD (or equivalent) in genetics,

UWisconsin Madison EvolutionaryBotany

Assistant Professor University of Wisconsin-Madison

Fundamental research on plants, algae, or fungi in rapidly changing environments:

The Department of Botany at the University of Wisconsin-Madison seeks outstanding candidates for a tenure-track assistant professorship involving fundamental research on plants, algae, or fungi in rapidly changing environments, including biological resiliency and/or conservation genetics. Research and teaching at the molecular, physiological, genomic, population genetic, ecological, or ecosystem levels will be considered. Successful candidates will complement existing research activities in the Departments of Botany and Integrative

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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UWyoming ComputationalEvolutionaryBiologist

Tenure Track Position in Computational Evolutionary Biology at the University of Wyoming

The Department of Botany and newly formed School of Computing at the University of Wyoming are searching for a computational evolutionary biologist to be hired as part of a cluster hire in artificial intelligence/machine learning (AI/ML) and data science (https://www.uwyo.edu/SOC/people/2022-cluster-hire.html). Through the hire in "Advanced STEM Applications of AI/ML and Big Data" we invite applications for a tenure-track faculty member at the rank of Assistant Professor to begin in August 2023. The position will be held jointly between the School of Computing (tenure home) and the Department of Botany (https://www.uwyo.edu/SOC/index.html; https://www.uwyo.edu/botany/).

We seek a Computational Evolutionary Biologist who uses and develops AI/ML applications and high performance computing tools in the generation and analysis of biological data from any group of organisms (i.e., plants, animals, microbes, etc.) at any organizational scale (molecular, cellular, organismal, ecosystem, etc.). Scientists with expertise in population genomics, phylogenomics, or any area of Evolutionary Biology incor-

porating the generation and analysis of genomic data are especially encouraged to apply, but we will consider exceptional candidates applying AI/ML to evolutionary questions utilizing other data types as well. Competitive candidates will also show evidence of teaching effectiveness and grantsmanship, a strong publication record, a commitment to diversity, equity, and inclusion, and a research program that effectively incorporates students. Teaching would likely include upper-division and graduate courses in Computational Biology and/or Applied Bioinformatics, serving students from biomedical, physical, and agricultural sciences, as well as opportunities for the candidate to develop courses in their area(s) of expertise.

Potential candidates should visit the job description at https://eeik.fa.us2.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1/job/223016/-?utm_medium=jobshare for information on the desired qualifications and application details for this position. This search will remain open until the positions are filled. The candidate selection process will start on November 30th, 2022. Questions should be directed either to the Department of Botany representative on the Search Committee, Dr. Catherine Wagner (catherine.wagner@uwyo.edu), or to the Search Committee Chair, Dr. Bryan Shader (bshader@uwyo.edu).

About the Department of Botany

The Department of Botany is an interdisciplinary, collaborative department focused on conducting innovative research, teaching and outreach on the patterns and processes of life. Our research spans diverse areas of the ecology and evolution of plants, animals, ecological and evolutionary theory, and statistical developments for the life sciences. The Botany Department is unique at UW in our focus on fundamental research and teaching in biology and biodiversity at population, community, and ecosystem scales. Our faculty conducts basic and applied research relevant to the state, nation and globe. Such topics include ecological disturbance, invasive species, symbiosis, global climate change, ecohydrology, forestry, and conservation genetics. Within the department, we offer a B.S., M.S. and Ph.D. in Botany, a B.S. in Biology, and our faculty participate in several interdisciplinary degree programs, including the PhD Program in Ecology and Evolution (http://www.uwyo.edu/pie/).

About the School of Computing

The School of Computing is a new academic unit at the University of Wyoming that focuses on the application of computing in and across all disciplines, and on delivering new academic programs that provide students with important computing and digital skills across all disciplines including supporting Digital for All (https:/-

/www.uwyo.edu/SOC/about.html). The School will be fundamentally interdisciplinary, using translational research to leverage new and critical computing technologies for solving grand challenge problems in science and society. The School of Computing's hiring plan over the next five years includes new tenure track faculty, many of whom will have joint appointments with other academic units. The School currently hosts some 33 Founding Adjunct Faculty from across the university, has in place an Internal Advisory Board representing over a dozen academic areas, and is preparing undergraduate degree programs in Computing, Data Science, and Applied Software Development. The School is currently

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UWyoming EvolutionAndMachineLearning

The Department of Zoology and Physiology at the University of Wyoming is partnering in a broad cluster hire initiative in applied artificial intelligence/machine learning (AI/ML) and data science led by a new School of Computing. Through the cluster hire we invite applications for 2 tenure-track faculty members at the rank of Assistant Professor to begin in August 2023. The position will be held jointly between the School of Computing (tenure home) and the Department of Zoology and Physiology with 60% in the School of Computing and 40% in the Department of Zoology and Physiology. The reappointment, tenure, and promotion home will be in the School of Computing.

There are two positions: 1) New Tools and Novel Approaches for Enabling Applications of Advanced AI/ML and Big Data; and 2) STEM Applications of Advanced AI/ML and Big Data.

Through this opportunity, the Department of Zoology and Physiology seeks a candidate who conducts research that bridges the fields of Zoology, Physiology, Ecology, and/or Neurobiology with the field of data science including advanced AI/ML and big data. We are a multidisciplinary department and are especially interested in candidates that 1) develop new tools and novel approaches for enabling applications of AI/ML and 2) facilitate applications of AI/ML to animal behavior, evolutionary biology, neurobiology, population and community ecology, physiology, and wildlife and fisheries ecology and conservation.

Potential candidates should visit the job description at the following links to apply and for information on the desired qualifications and application details for this position:

1) New Tools and Novel Approaches for Enabling Applications of Advanced AI/ML and Big Data:

https://eeik.fa.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/223009/-?utm_medium=jobshare   2) STEM Applications of Advanced AI/ML and Big Data:

https://eeik.fa.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/223016/-?utm_medium=jobshare These positions will remain open until filled. Complete applications received by 11/30/22 will receive full consideration. Questions should be directed to the Search Committee Chair, Dr. Gabrielle Allen (gdallen@uwyo.edu).

University of Wyoming is an Affirmative Action/Equal Opportunity Educator and Employer. We are committed to a multicultural environment and strongly encourage applications from women, minorities, veterans and persons with disabilities. In compliance with the ADA Amendments Act (ADAAA), if you have a disability and would like to request an accommodation to apply for a position, please call 307- 766-2377 or email jobapps@uwyo.edu.

Vikram Chhatre <crypticlineage@gmail.com>

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VertMuseum CornellU Herpetology

POSITION ANNOUNCEMENT Assistant Professor: Herpetology

The Department of Ecology and Evolutionary Biology and the Cornell University Museum of Vertebrates (CUMV) invite applications for a tenure-track position in Herpetology. Compelling candidates will build a research program on the diversity and natural history of reptiles and/or amphibians, using their expertise to address fundamental biological questions within one or more of a broad range of sub-disciplines including

evolutionary biology, ecology, systematics, physiology, morphology, behavior, conservation biology, and/or citizen science. Preference will be given to candidates who employ state-of-the-art approaches that create or make use of herpetological specimen collections. Applicants should have a Ph.D. and preferably postdoctoral experience, demonstrated scholarly excellence and scientific productivity, a collaborative outlook, a dedication to teaching and engaging undergraduate and graduate students in Herpetology and other courses, and a track record of addressing inclusivity and public engagement through their professional contributions in keeping with Cornell's efforts to promote diversity and equity in our community.

Candidates should submit via the website https://academicjobsonline.org/ajo/jobs/23424, a cover letter of up to two pages, curriculum vitae, contact information for three references, a research statement (two pages), a statement of teaching interests and experience (two pages), a statement of contribution to diversity, equity, and inclusion (two pages), and a page listing citations/DOIs for three representative publications. Inquiries can be directed to Search Committee Chair, Irby Lovette, at herpsearch@cornell.edu . Review of applications will begin November 28th, 2022 and continue until the position is filled.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities. We also recognize a lawful preference in employment practices for Native Americans living on or near Indian reservations.

Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty, and staff of all identities and backgrounds. We strongly encourage individuals from underrepresented and/or marginalized identities to apply.

Irby Lovette <ijl2@cornell.edu>

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Vestaron Michigan YeastGenomics

Position Title: Research Associate/Associate Scientist at Vestaron Corp. in Kalamazoo Michigan

The Company:

Vestaron is leading a peptide-based revolution in crop protection. The company is dedicated to improving the safety, efficacy and sustainability of crop protection through migration from chemical pesticides to biological peptides. Vestaron's peptides provide growers with novel crop protection solutions that address proven targets and provide efficacy on par with or better than traditional chemical pesticides. Its peptides overcome existing resistance issues while offering a desired safety profile for workers, beneficials and the environment. Vestaron has earned global recognition for its work, including the inaugural 2015 Bernard Blum Award for a novel biocontrol solution, the prestigious Green Chemistry Challenge Award from the U.S. Environmental Protection Agency in 2020 and "Best New Biologic Product" at the 2021 IHS Market Crop Science Awards. The Opportunity: Vestaron is currently recruiting for a Research Associate to join our R&D team in Kalamazoo, MI. The Research Associate will have the opportunity to work with highly skilled scientists on our strain development programs for the production of our pipeline of sustainable crop protection products. Daily responsibilities will include a mix of experimental design, laboratory work, data reporting, and communicating with team members. The position's main emphasis will be on genetic modifications to our microbial production systems, management of our production lots and strain collections, and exploring new technologies and techniques in strain development. Ideally, this person should have experience with plasmid DNA construction, genetic manipulation of microbes, and strong foundation in genetics. Experience with techniques such as qPCR, CRISPR, microbial phenotyping, and automated liquid handlers are a plus.

Responsibilities:

Work cohesively as part of the greater R&D team to perform experiments involved in stages ranging from discovery to development. Timely execution of experiments designed in conjunction with senior scientists. Design and generation of heterologous expression vectors and expression strains.

Bringing in and testing new technologies and techniques

for strain development. Keep detailed and organized records of experimental protocols and results. Contribute to multiple projects simultaneously and manage diverse team interactions. Contribute to daily lab maintenance activities.

Desired Qualifications:

- Require Advanced degree (M.S.) from an accredited institution in Biology, Molecular and Cell Biology, Biochemistry, Genetics, Microbiology, Evolution or related field, or 4-year college degree with at least 2 years of work experience in molecular biology, biochemistry, and/or biotechnology. - Must have experience with molecular techniques. - Experience with heterologous expression and genetic manipulation of microbial strains is a plus. - Ambitious, self-driven, and capable of adapting to changing roles and project priorities. - Strong scientific foundation with an ability to adapt and apply protocols. - Proficient with the use of Microsoft Office Products. - Works well in a team setting. - Strong multi-tasking skills. - Strong oral and written communication skills.

Why Join Us? Join the RevolutionÂ With an innovative and accomplished leadership team guiding our day-to-day wins, and a Board with a long-term vision that supports our efforts, we set out daily to improve the safety, efficacy and sustainability of crop protection through migration from synthetic pesticides to peptide-based biopesticides. Our team is empowered to solve problems and find solutions that will advance the science and commercialization of peptides. If you're seeking a career that taps into your talents and contributes to harnessing the Power of PeptidesÂ for the benefit of the environment and industry, we just may have a job for you. We know our employees are our most valuable asset, and our culture conveys that.

In 2019 we opened our headquarter in the heart of RTP (Research Triangle Park, NC), a global center of Agricultural Technology and Innovation. Our offices are located on Stirrup Creek Drive, a vibrant work environment where the development of restaurants, shops and hotels is underway. Our R&D center is in Kalamazoo, MI, within the Western Michigan University Innovation Center. The 69,000-square-foot, purpose-built incubator and co-working space was created to support companies from the earliest start-ups to maturing organizations with office and conference space, high-quality shared scientific equipment and resources, and a wide range of support services. We offer a competitive benefits package, to support the health and happiness of our staff. We invite you to apply to join a company developing the products, processes, and relationships to lead

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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

YorkU EvolutionaryGenetics

The Department of Biology, Faculty of Science, York University invites highly qualified candidates to apply for a professorial stream tenure-track appointment in the area of Genetics at the Assistant Professor level, to commence July 1, 2023. Salary will be commensurate with qualifications and experience. All York University positions are subject to budgetary approval.

A PhD (by the start of the appointment) in Genetics is required, with a demonstrated record of excellence or promise of excellence in research and in teaching. Applicants should have a clearly articulated program of research and specialize in a branch of Genetics within (but not limited to) molecular, cellular, and/or evolutionary genetics or genomics.

The successful candidate will be expected to engage in outstanding, innovative, and externally funded research at the highest level. Candidates must provide evidence of research excellence or promise of excellence of a recognized international calibre as demonstrated in: their research statement; a record of publications (or forthcoming publications) in significant journals in the field; presentations at major conferences; awards and accolades; and strong recommendations from referees of high standing.

The position will involve graduate teaching and supervision, as well as undergraduate teaching and the successful candidate must be suitable for prompt appointment to the Faculty of Graduate Studies. Evidence of excellence or promise of excellence in teaching can be provided through the teaching statement, teaching accomplishments or examples of mentoring undergraduate/graduate students, and pedagogical innovations including in high priority areas such as experiential education and technology enhanced learning; and teaching evaluations (when available).

York University has a policy on Accommodation in Employment for Persons with Disabilities and is committed to working towards a barrier-free workplace and to expanding the accessibility of the workplace to persons with disabilities. Candidates who require accommodation during the selection process are invited to contact

Terrance Kubiseski, Chair of the Genetics Search Committee at tkubises@yorku.ca.

All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents, and Indigenous peoples in Canada will be given priority. No application will be considered without a completed mandatory Work Status Declaration form (https://acadjobs.info.yorku.ca/affirmative-action/work-authorization-form/).

York supports Indigenous research and education through its Indigenous Framework for York University, the Centre for Indigenous Knowledges and Languages and the Indigenous Council. The university is also invested in Advancing Black Research & Scholarship and recently announced the recipients of the inaugural York Black Research Seed Fund awards.

York is located in Toronto, Canada's largest city and one of the world's most diverse. In 2022, Forbes named Toronto one of the Ten Best Cities to Live and the campus is accessible by subway. York is a leading international teaching and research university, and a driving force for positive change. Empowered by a welcoming and diverse community with a uniquely global perspective, we are preparing our students for their long-term careers and personal success. Together, we can make things right for our communities, our planet and our future.

York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA Program,

which applies to women, members of racialized groups, Indigenous peoples, persons with disabilities, and those who self-identify as 2SLGBTQ+, can be found at http://-/acadjobs.info.yorku.ca or by calling the AA line at 416-736-5713. Applicants wishing to self-identify as part of York University's Affirmative Action program can do so by downloading, completing, and submitting this voluntary self-identification form.

The deadline for receipt of completed applications is January 15, 2023. A letter of application with an up-to-date curriculum vitae, and statements of research and of teaching interests and experience should be submitted by email to biojobs@yorku.ca with "Genetics" in the subject line. Three letters of references will be requested from short-listed candidates.

Position Rank: Full Time Professorial Stream - Assistant Professor Discipline/Field: Genetics Home Faculty: Science Home Department/Area/Division: Biology Affiliation/Union: YUFA Position Start Date: July 1, 2023

Ryan K Schott, PhD Assistant Professor Department of Biology & Centre for Vision Research, York University https://www.yorku.ca/science/schott/ Ryan K Schott <schott@yorku.ca>

— / —

Other

ESEB CallJohnMaynardSmithPrize

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

ESEB Office <office@eseb.org>

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ESEB EqualOpportunitiesInitiative DeadlineFeb28

** ESEB EQUAL OPPORTUNITIES INITIATIVE FUND **

Annual open call for proposals for activities that increase awareness of the problem and possible solutions. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal how the activity will improve our knowledge and awareness of inequalities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general. More information about the ESEB Equal Opportunities (EO) Initiative is available at https://eseb.org/prizes-funding/equal-opportunities-initiative/equal-opportunities-initiative-fund/ . *ELIGIBILITY*

- The main applicant must be ESEB member (to become a member of ESEB, please visit https://eseb.org/-society/eseb-membership/) - Applications can be submitted by scientists at any stage of a professional career (e.g., undergraduate, Masters and PhD students, postdocs, and lecturers). - Applicants must provide proof of support of the host institution where the activity should take place, if applicable (letter from head of department) - Applicants must explain explicitly how their activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Applicants must detail which group of people, and how many, will benefit from this activity (for instance, 50 under-

graduates, 10 graduate students, 15 faculty members) - Budgets should be reasonable (usually not exceeding 1000 EUR, if more is required, please contact EO committee first), and, if applicable, detail costs per person (that benefit from this event).

HOW TO APPLY

The application should be no more than 3 pages long (excluding CV and support letter) and include: - Name of the applicant(s), please indicate the main applicant if appropriate. - A proposal of the activity - A justification of how the activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Which group of people will benefit (students, staff, general public), and how many - A detailed, justified budget (including cost per beneficiary) - A time schedule - A short summary to be published on the website (100-150 words) - CVs of the applicants (1-2 pages) - A letter of support of the host institution's head of the department

Please submit the application as a single PDF-file by email to Ute Friedrich (office@eseb.org; Subject: EO Fund) at the ESEB Office and take care to limit the size of attachments (total < 10 MB) in any one email.

Deadline: 28 February 2023

Successful applications must hand in a report about the activity, including details of how funds were spent, within 3 months of the event.

Dr. Ute Friedrich| ESEB Office Manager European Society for Evolutionary Biology | www.eseb.org ESEB Office <office@eseb.org>

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tive, 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 ESEB Office <office@eseb.org>

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ESEB GlobalEvolBiolInitiative Proposals Nov25

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 Initia-

ESEB SpecialTopicNetworks ProposalsApr03

ESEB SPECIAL TOPIC NETWORKS - CALL FOR PROPOSALS

Small symposia, workshops and courses in various formats can perform functions complementary to those of the ESEB Congresses, allowing more focused interac-

tions within specialist areas, forging new links between previously separate areas or fostering interdisciplinary and innovative ideas that merge specialized fields. One-off events can be valuable but the returns for connected series of events can be even greater. Therefore, ESEB invites proposals for Special Topic Networks (STNs) that will support dynamic and flexible series of small meetings and/or other networking opportunities in focused and currently active research areas.

Each STN will be funded for up to 6 years (subject to review after 2 and 4 years of operation) with up to 10,000 Euros for each 2-year funding period. Eight STNs have been initiated since the start of the initiative (see https:/-/eseb.org/prizes-funding/special-topic-networks/), and further STNs will be initiated every other year. The format of these STNs is up to their organisers and innovative ideas are encouraged. All fields of evolutionary biology are eligible. Applicants should provide a proposal with the following components: 1) a description of the research area to be targeted, showing why it is timely to address it in this way and outlining the expected benefits to the field from the STN (max. 1000 words), 2) a plan for the first two years of operation of the STN and an outline of activities over the remaining years (max. 500 words), 3) the names and affiliations of the proposed organisers, with brief (max. one page) CVs, and 4) a budget, with brief justification, for the STN activities proposed for the first two years and measures planned to limit the environmental impact of STN activities.

Applicants should also identify an institution that is prepared to open an account in which the funds can be deposited and managed by the applicants. 'Overheads' will not be paid to this institution but reasonable direct administrative costs will be eligible. Funding for each 2-year block will be subject to approval by the STN Committee, established by Council, following receipt of a report of activities in the preceding 2 years. The institution managing funds will be asked to provide a certified statement of expenditure to accompany the report. The principal criterion for renewal will be evidence that the funding provided had been used to further interaction in the topic area.

Applications should be sent to the ESEB office email (office@eseb.org) as PDF files by ***3rd^April 2023***. Updated versions of previously-submitted proposals are welcome. Proposals will be assessed by an independent STN Review Panel, appointed by the STN Committee following the closing date and ensuring no conflict of interest by panel members. The STN Review Panel will make funding recommendations to Council. The result will be announced after the next Council meeting, at latest on 31st August 2023.

The principal criterion for selection of an STN will be its focus on an active area of research within the scope of evolutionary biology. Preference might be given to STNs that propose new connections between sub-disciplines or that focus on the resolution of current controversies. New STNs will address topics distinct from those covered by currently-funded STNs. A score for this criterion based on part (1) of the application will account for 50% of the overall panel score. It is primarily for the proposers to demonstrate the need for an STN, the potential for it to stimulate progress and the activities that will enable the network to be effective. A typical STN might organise one small discussion meeting per year but it might also organise training events and its members might work together to generate resources or publications. Interaction among members might be fostered, between meetings, using social media, online discussion forums or similar. A score for the effective and innovative nature of the plans laid out in part (2) of the proposal will account for 25% of the overall panel score. The final 25% of the score will be based on feasibility and budget anticipated from parts (3) and (4) as well as on adherence to the following guidelines:

1. A proposal should be supported by at least three ESEB members (valid membership on the closing date for applications), from at least two and typically three countries and taking diversity issues into account, who commit to organising the STN for its duration (or to finding appropriate replacements if forced to step down). A member should support no more than one proposal in a given application round and organisers of current STNs should not be proposers of new STNs. 2. STNs should organise at least one meeting in the non-Congress year

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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=-pfbid02und3AuNchjS6J7Zh7ZD3i jv2Nw8CUHqd9raCpqVaJE7Dmv HKV7WcAXC8VFkz1JXkNl&amp ;id66679242&amp ;eavYNrQzaONc4isRB JYJIYEJAFYqoiQVREL1nA -n00bIkh4Mo7H˳   FyBhOjqy4bD9c1fQ&amp ;m˳entstream˳source=timeline&amp   ;anchor˳composerúlse&amp ;paipv=0

VOLTOLINI <jcvoltol@uol.com.br>

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FieldAssist SiberianJayProject

Expenses paid field assistant positions to assist in social observations and bird ringing of Siberian jays in Swedish Lapland

For the upcoming field season spring 2023 (4.3.-31.5.2023), we are looking for two highly motivated, expenses paid field volunteers to join our field project (main responsible PD Dr. Michael Griesser, University of Konstanz; collaboration with Dr. Alex Sutton, Bangor University). The study site is located near Arvidsjaur, Swedish Lapland. An overview over our work can be found here: https://www.youtube.com/watch?v=-JaH6wjAYAiE Our current project investigates the microbiome of Siberian jays. The work of the field volunteers will be to help with catching, colour-ringing and radio-tagging birds, blood and feacal sampling, nest search and monitoring nestling growth, behavioural observations and data management. This work will give insight into a long-term study system and will be carried out in managed and pristine boreal forests.

Observe that we can access the study site until early May only on X-country skis, requiring X-country or down-hill skiing skills. Moreover, field work can be demanding at times, with temperatures falling below -25C at times, and carrying field equipment while skiing.

Qualifications: (1) Skiing skills (X-country or downhill) (2) Preferably bird ringing, mist-netting and radio-tagging experience (3) Previous field work experience (4) Ability to work in small teams and sociable personality (5) Driving license (6) Fluent in English

We will cover for accommodation, travel expenses from and to the study site (in total up to 340 Euros), as well as the living expenses on place.

We embrace and value diversity, and thus, we aim at recruiting a diverse team of assistants.

Applications - including a CV, a letter of motivation (1 page) and the name of two referees - should be send to Michael Griesser michael.griesser@uni-konstanz.de and Alex Sutton alexosutto@gmail.com, preferably in a single PDF.

Applications received until 22 Dec 2022 will be given full consideration.

Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

https://scholar.google.com/citations?user=-IEIH0xkAAAAJ   Michael   Griesser <michael.griesser@uni-konstanz.de>

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HarvardU Arboretum PlantResFunding

Research Funding opportunities at the Arnold Arboretum of Harvard University

The Arnold Arboretum of Harvard University promotes and supports research consistent with its mission to discover and disseminate knowledge of the plant kingdom. To foster both independent and collaborative work, the Arboretum offers fellowships and awards to students, post-doctoral researchers, and professionals of the biological sciences including evolution, ecology, development, genetics and global change research. Applicants are encouraged to define and develop paths of inquiry using the Arboretum's resources, including its world-renowned living collection, herbarium, plant records, library and archives, greenhouse and laboratories, and the expertise of its staff.

There is currently one fellowship, seven awards, and an internship program. Applicants must submit a research proposal online. Please see the website for the specific requirements of each award. https://arboretum.harvard.edu/research/-programs-and-opportunities/ Available opportunities:

Internships: Application deadline is Feb 15 annually DaRin Butz Research Internship Program of the Arnold Arboretum of Harvard University

Research Awards: Application deadline is Feb 1 annu-

ally Ashton Award for Student Research Cunin / Sigal Research Award Deland Award for Student Research Shiu-Ying Hu Student/Postdoctoral Exchange Award Jewett Prize Sargent Award for Visiting Scholars Sinnott Award

Fellowship: Application deadline is Jan 11 Global Change Postdoctoral Fellowship

Faye Rosin, PhD Director of Research Facilitation Arnold Arboretum of Harvard University 1300 Centre St Roslindale, MA 02131

Office: Weld Hill W225 phone: (617) 384-5095 frosin@oeb.harvard.edu http://arboretum.harvard.edu/ "Rosin, Faye M" <frosin@oeb.harvard.edu>

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HighSchool EvolutionaryQuestions

Dear community,

I got involved in a project to help improve the understanding of evolutionary theory at junior-high (12-15 years) and high-school (15-18 years) students in Greece. A task is to build a multiple choice questionnaire on "fundamental evolutionary concepts and their common misconceptions". Any input would be greatly appreciated and acknowledged (e-mail me at spapakostas@ihu.edu.gr or spiros.papakostas@gmail.com).

Thank you in advance!

Spiros

Spiros Papakostas, Assist. Prof. Dept of Science and Technology International Hellenic University mob: +30 6981099530

Spiros Papakostas <spapakostas@ihu.edu.gr>

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HighSchool EvolutionaryQuestions answers

Spiros, That sounds like a wonderful project - and I do have some material for you that could help.

Years ago I got very interested in multiple choice questions and how good ones could be constructed. That led me and a few colleagues into doing a training workshop for our Office of Faculty Development (here's the "slide deck" https://hescgi.oit.ncsu.edu/Stop.html).

One of the items we use for examples is an* old* resource which I don't think has been sufficiently appreciated https://ofd.ncsu.edu/wordpress/wp-content/uploads/2013/09/testing-and-evaluation-in-the-biological-sciences.pdf See the opening letter to find out more about its history and recommended use - and then Section 12 has a lot of specimen MCQs about Evolution.

–henry

Henry Schaffer <hes@ncsu.edu>

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Licor Analyzer

Our Licor 4300 DNA analyzer recently died and they don't make or service them anymore. We used ours quite extensively and we have a number of projects including grad student theses that depend on it. I know they are older pieces of equipment, but we use it for msats and sexing. If anyone has one or knows of someone who might have one they aren't using, can you please let me know? Thanks. Dr. Theresa Burg (theresa.burg@uleth.ca)

Linda

Linda Lait <lindaalait@gmail.com>

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MicrobiomeResearch TravelGrant DeadlineJan31

Travel grants for research exchange in microbiome research funded by:

WAME: Wild Animal Microbiome Evolution: A Special Topic Network (funded by the European Society for Evolutionary Biology ESEB).

Our call for ECR research exchanges is open: We will provide up to euro 1400 for travel & accommodation for ECRs visiting groups with complementary research interests. Deadline Jan 31st, info in link how to apply https://www.wamestn.com/research-exchanges Important dates. Deadline 31st January 2023

Awards announced 1st March 2023

Travel must take place before end of 2023

Applicants should fill out the WAME ECR Research Visit form and submit this in a single PDF file to stn.wame@gmail.com along with two letters of support (one from current supervisor / line manager) and one from host research group.

Who can apply. Early career researchers - postgrad research students, postdocs and junior research fellows. Anyone not currently in a permanent faculty position or on a senior fellowship.

Available funds. Applicants can request up to euro 1400 each toward travel to a host lab and accommodation during their exchange.

Trine Bilde <trine.bilde@bio.au.dk>

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MolEcol Issue ChromosomalRearrangements

Dear EvolDir community,

together with Hannah Augustijnen (University of Basel), Cristina Arias-Sardï¿½ (University of Kent), and Marta Farrï¿½ (University of Kent) we are organising a special issue in Molecular Ecology entitled "A genomic update on the evolutionary impact of chromosomal rearrangements"

Scope The role of chromosomal rearrangements (CRs) driving evolution has been a long-standing question in evolutionary biology. CRs comprise an array of rearrangements, ranging from local structural variants (SVs) to large-scale karyological changes. While CRs have been the focus of classic theoretical work, we lack empirical evidence for them causing adaptation and speciation. New technologies make it now possible to assemble chromosome-level genomes of a broad range of organisms. Coupled with the democratization of re-sequencing technologies, we can now study CRs and their implications across the tree of life. Manuscripts in this special issue will address the following questions, from a broad perspective, bringing together both theoretical and empirical research on taxa from across the tree of life:

- What causes the evolution of CRs and do these differ among taxa? - Are CRs themselves sufficient to result in speciation, or do they promote speciation by interacting with other barriers? - Does the evolutionary impact of CRs among different types of CRs? - Do chromosomal rearrangements have a different evolutionary impact depending on whether autosomes or sex chromosomes are involved?

The special issue is now open for relevant submissions and the deadline is May 1, 2023. Details can be found here https://onlinelibrary.wiley.com/journal/-1365294x/homepage/special-issue-chromosonal For more information or questions, please contact me at kay.lucek@unine.ch

Best regards Kay Lucek

Prof. Dr. Kay Lucek Biodiversity Genomics University of Neuchï¿½tel rue Emile-Argand 11 2000 Neuchï¿½tel Switzerland www.biodiversity-genomics.ch LUCEK Kay <kay.lucek@unine.ch>

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OnlineSeminar Evoltree CommunityGenomics

EVOLTREE is proud to announce the next EVOLTREE online seminar series will be taking place in November and December 2022. The series' theme is "Genetic and genomic approaches to studying communities" and we again have a great lineup of speakers:

Wednesday 16 November 2022 16:30-18:00 CET Prof Thomas Whitham, Northern Arizona University "Community evolution: what is it and why is it important?"

Wednesday 30 November 2022 16:30-18:00 CET Dr Jaime Huerta-Cepas, CSIC Madrid "Phylogenomic approaches to analysis of evolution and functional novelty in microbial communities"

Wednesday 7 December 2022 16:30-18:00 CET Dr Sara Branco, University of Colorado "Fungal diversity: from communities to genes"

At each talk there will also be the opportunity for two flash talks from early career scientists. If you, or someone you know would like to take one of opportunities ' let us know!

More details can be found here: https://www.evoltree.eu/webinars Registration can be found here: https://www.evoltree.eu/evoltree-online-seminar-series-2022 All seminars will be recorded and available on the EVOLTREE YouTube channel afterwards: https://www.youtube.com/channel/UCla0sRglK9UUPYp5Ks8hwFA With best regards, Stephen Cavers (UKCEH, UK), Christian Rellstab (WSL, Switzerland), Lidwina Koop (European Forest Institute, Spain), Santiago C. Gonzï¿½½lez-Martï¿½½nez (INRAE, France)

Christian Rellstab <christian.rellstab@wsl.ch>

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ScienceTwitter becomes ScienceMastodon

Dear evoldir community,

As you may be aware, Twitter is changing quickly since it was bought by Elon Musk, and its future is bleak. Many of us used Twitter to share papers and ideas, communicate about conferences, advertise positions, do SciComm, build a network, etc. These activities are essential to some of us, and an alternative to Twitter has been found: Fediverse, using Mastodon. A strong community has already been built there over the last few weeks; learned societies and journals are present as well, but we are still missing people.

Here are a few tips to ease the migration:

1. If you have a Twitter account, before anything: use http://fedifinder.glitch.me to find the Mastodon accounts of people you follow and are followed by on Twitter. The program scans their bios for mentions of Mastodon accounts. You can download a csv file of account names. If you have Norton antivirus, it may complain; try https://pruvisto.org/debirdify/ instead.

You will also see on which servers people are, which is useful to chose one.

2. Directly go to the server of your choice to sign up, or look for one on https://joinmastodon.org/servers or on the Mastodon app. Many people the eco-evo community are on https://ecoevo.social/about, which was created a few weeks ago in anticipation of the migration. There are also some of us on genomic.social, mstdn.science, fediscience.org (but there are entry conditions for this server). mastodon.social is a big generalist server, you can also simply go there.

Don't overthink this server choice, it matters less than you may fear or than what some people say: you can follow people across servers. You won't be stuck in a silo.

3. Once sign-up is successful, take the time to fill in details such as your name, profile picture, bio, links (which can be verified by adding a small code on your webpage). Write an introductory post with the #introduction hashtag.

In other words, don't start following people if you look anonymous!

4. Go to Preferences, Import and Export, Import, and

upload the csv file of account names that you downloaded on step 1. And voilï¿½!, you are already following a lot of familiar faces, probably across servers, i.e. out of your "silo".

I also listed accounts of journals, scientific societies, science journalists etc. to help people get started (https://mstdn.science/@flodebarre/109365466165995263).

5. Important if you have a Twitter account: Add your full Mastodon account (@handle@instance) to your Twitter bio, so that others can find you like you did in step 1.

6. There are a few differences between Mastodon and Twitter, notably post visibility, the use of Content Wrappers (CW) and how direct messages (DM) look like. Importantly also, there is no full text search, only hashtags can be searched – this affects how you compose a post (use hashtags!) and how you interact (favorite liberally to bookmark!). Posts are also presented in chronological order and that's all; you need to "boost" (retweet) to increase the visibility of a post you think is worth sharing. So take a few minutes to familiarize yourself by reading tips like https://blog.djnavarro.net/posts/2022-11-03_what-i-know-about-mastodon/#how-can-i-make-threads . I also wrote a few practical tips (https://mstdn.science/@flodebarre/109304286811564444). You can also follow @feditips@mstdn.social.

7. If you can, consider chipping in to help run the server you have joined: they are run by individuals. Consider also bringing the topic to your institution or your scientific society. We will need long-term support to make it viable.

What is happening to Twitter is sad; ScienceTwitter was an amazing experience. But we can keep this international scientific conversation going, and we can even make it better. Let's seize this opportunity!

Best wishes, Flo

Florence Dï¿½barre @flodebarre@mstdn.science

website: http://www.normalesup.org/ ˜ fdebarre/ email: florence.debarre@normalesup.org florence.debarre@sorbonne-universite.fr   mailing address: ï¿½ Institut d'ï¿½cologie et des sciences de l'environnement de Paris (iEES Paris) ï¿½ CNRS UMR 7618 ï¿½ Sorbonne Universitï¿½ ï¿½ Case Courrier 237 ï¿½ 4, place Jussieu ï¿½ 75252 Paris cedex 5 ï¿½ France

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Trinidad ResInternship FishEvolution

Paid Research Internships - Ecology and Evolutionary Biology

Research interns are needed to assist in a multi-disciplinary, multi-investigator, experimental study of the evolution of species interactions in Trinidad, West Indies. The research is led by Professors David Reznick (University of California, Riverside), Joseph Travis (Florida State University), Tim Coulson (University of Oxford), and Ron Bassar (Auburn University). We seek to integrate multiple biological fields for the study of these interactions in experimental populations of guppies and killifish in Trinidad. Duties include assisting in monthly censuses of guppy and killifish populations in montane streams and helping to execute experiments in on-site artificial streams. The monthly censuses include long hours in the field and laboratory.

Interns will be required to spend a minimum of 3 months in Trinidad, with possibility of extension. There are potential start dates in April 2023 and every month thereafter until September 2024. We will pay a monthly stipend, cover travel, living expenses, and provide housing.

Qualifications: We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some additional field research experience before doing so. Research will take place in semi-remote areas of Trinidad, sometimes under bad weather conditions. Applicants must be able to live and work well with others. Research will involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

Please   see   our   website   < www.theguppyproject.weebly.com > for more information on the project and access to reprints. Be sure to check out our video menu, which includes a "guppy censuses" as submenu VII. It details the main tasks associated with the internship.

Applicants should send a cover letter, CV, and the names and e-mail addresses of three or more professional references to David Reznick (gupy@ucr.edu). At least two of the references should be academics.

rdbassar@gmail.com

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

(jsardina@wisc.edu), Kevin Bao (kbao5@wisc.edu), or Linh Nguyen (lmnguyen3@wisc.edu).

Please feel free to share.

Thanks, Jojo, Kevin, and Linh

Joseph Sardina <jsardina@wisc.edu>

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

UWisconsin Madison EarlyCareerScientistAward

The J.F. Crow Institute for the Study of Evolution at the University of Wisconsin-Madison is inviting early-career evolutionary biologists to apply to the 2023 UW-Madison Evolution Seminar Series Early Career Awards. The deadline to apply will be December 3rd, 2022.

Eligibility: Non-UW-Madison graduate students and postdoctoral fellows who received a Ph.D. no longer than 5 years ago.

Details and the application can be found here: https://evolution.wisc.edu/seminars/early-career-seminars/ Early Career Scientist Seminars - Wisconsin Evolution - UW-Madison The J.F. Crow Institute for the Study of Evolution at the University of Wisconsin-Madison is inviting early-career evolutionary biologists from outside UW-Madison to apply to participate in an early-career scientist seminar series in Spring 2020. Please come share your science with our community! The 3-5 speakers selected for the series will be invited to visit evolution.wisc.edu

If you have any questions, please contact Joseph Sardina

YorkU LocationsForIndigenousFacultyAdverts

Dear Colleagues,

I am seeking your assistance with the Indigenous faculty search. The search committee wishes to advertise the job ad as widely as possible, which includes scientific and scholarly organizations (examples listed below).

Ecology/Evolution organizations Environmental science organizations Toxicology organizations Physiology organizations Cell/Molecular organizations Structural biology organizations Neuroscience More specific organizations for any of the above.

Please notify me if you belong to a scientific society and are able to have the job ad posted (ideally for free). In addition, do know of any Canadian organizations or platforms where we can post the job ad, especially those that target Indigenous scientists and scholars?

Thank you very much for your support.

Robert

PostDocs

Almeria Spain PestEvolution

2-Year Post-doctoral position at the "Arid Lands Research Institute, EEZA ' CSIC, Almería, Spain" We are looking for a motivated Post-doctoral candidate with a background in theoretical ecology and evolutionary biology willing to be fully involved in a recently granted project entitled "Food web engineering: Ecological systems biology for biological pest control 'SIMULPEST' TED2021-129653B-I00". Our project aims at exploring and identifying evolvable natural enemy functional traits and food web topologies that best control pests in an array of realistic agricultural systems of variable complexity and different global warming scenarios (Montserrat et al. 2020 Curr. Opin. Insect. Sci. 47:125-135).

The candidate will be involved in parameterizing and running simulations in desktop computers as well as High Performance Computing (HPC), using machine learning, optimization algorithms and pattern oriented modelling. The simulation platform will be an extensive update of WEAVER (Moya-Laraño et al. 2014, Adv. Ecol. Res. 50:75-143), a spatially explicit Next-Generation Individual-Based Model of high structural realism (Grimm et. al. 2017, Ecosystems 20:229-236). Potential candidates should have a very strong background in R language, experience in solving differential and difference equation models, and knowledge in C++,

or a similar low-level object-oriented programming language. Experience with IBMs and Next-Generation Ecology will be valuable. The post-doctoral researcher will work hand and hand with two computer scientists and a team of biologists and environmental scientists.

The City: Almeria (from the Arabic al-mariyya "mirror of the sea") is a small city in South-East Spain, sitting right on the Mediterranean Sea and surrounded by the driest ecosystems in Europe.

Salary: around 39,000 euro /year before taxes. This fits very well to the cost of living in Almeria (e.g., apartment rental is about 400-750 euro /month).

Expected starting date: First quarter of 2023.

Interested candidates should send a motivation letter and a CV to both Dr. Jordi Moya-Laraño jordi@eeza.csic.es and Dr. Marta Montserrat Larrosa mmontserrat@eelm.csic.es before December 15th 2022.

Jordi Moya Laraño <jordi@eeza.csic.es>

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

AMNH NewYork Bioinformatic-sComputationalBiology

Postdoctoral Fellowships in Bioinformatics and Computational Biology

The American Museum of Natural History seeks highly qualified applicants for a postdoctoral position for its Gerstner Postdoctoral Scholars program in Bioinformatics & Computational Biology.

Successful applicants will pursue independent and collaborative computational research in integrative studies of genomics, spatial bioinformatics, or biodiversity informatics alongside faculty and other researchers. This program encourages applications from scholars with research interests that may have broad implications for such themes as advancing our understanding of the evolution and diversity of species, the "tree of life", or comparative genomics. This 2022-23 application cycle also includes a special call for applicants who want to pursue museum-centered comparative biology research that also is relevant to human health or biomedicine, including but not limited to virology, epidemics, and public health; collections-based research to investigate the origin, spread, and/or comparative biology of emerging zoonotic pathogens, infectious diseases and their vectors, etc.

Gerstner Scholars in Bioinformatics & Computational Biology (GSB&CB) also will contribute to the design, development and implementation of new algorithms and other bioinformatics tools that address emerging big data issues and are customized for Museum research. In association with their professional development and contributions to the Museum, a portion of each Scholars' efforts will include teaching and workshops (with the https://-www.amnh.org/our-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/gerstner-scholars-program/gerstner-scholars-in-bioinformatics-computational-biology and https://www.amnh.org/our-research/sackler-institute-for-comparative-genomics) and assistance to Museum scientists and students with their bioinformatics and computational biology research through participation in the Museum's Bioinformatics Core Team.

The initial appointment will be for one year, potentially renewable for up to one additional year based on performance, with a highly competitive salary ($81,969 annually) and generous benefits.

Requirements: Applicants must have a PhD in Biological Sciences, Bioinformatics, Computer Science, Molecular Biology, Genomics, or a related discipline, with experience in the bioinformatics of large biological data sets. Proficiency in scripting is required. Candidates should have documented skills in genome informatics and/or processing phenomic, transcriptomic, or phylogenomic datasets. Candidates should have extensive research experience with a solid publication record, ideally with some experience in phylogenetic methods, and strong interpersonal, writing and problem-solving skills.

Applicants are encouraged to contact potential research mentors/collaborators in advance to develop a research statement (seehttps://www.amnh.org/-our-research/richard-gilder-graduate-school/faculty-searchhttps://www.amnh.org/research/richard-gilder-graduate-school/faculty). Further information on this Gerstner Scholars program is at https://-www.amnh.org/our-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/gerstner-scholars-program/gerstner-scholars-in-bioinformatics-computational-biology and https://www.amnh.org/our-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/gerstner-scholars-program/-gerstner-bioinformatics-and-computational-biology-scholar-profiles . For more information and how to apply please click this link:

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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

BaselU ClimateAdaptation

Postdoc position at Basel Univ on Species Range Limits and Climate Adaptation

Postdoctoral position in Plant Evolutionary Ecology: Species Range Limits and Climate Adaptation

The group of Plant Ecology and Evolution at the University of Basel, Switzerland (https://duw.unibas.ch/-en/ecoevo/) is looking for a postdoctoral researcher to lead the setup and analyses of studies in the field of

plant adaptation to climate, including quantitative genetics experiments performed in greenhouse and climate chambers and selection experiments outdoors.

Topics of research Our research projects focus on (i) adaptation under global warming, (ii) causes of constraints to climate-niche evolution, (iii) geographic and elevational range limits, (iv) the role of trade-offs among traits at range limits, and (v) detecting genetic variants of climate adaptation. Study systems are outcrossing Arabidopsis lyrata and Brassicaceae species of the Swiss Alps. We work both on the micro- and macroevolutionary scale and employ classical quantitative genetics methods combined with the analysis of genomic and transcriptomic data.

Your profile We are looking for a highly motivated candidate interested in Evolutionary Ecology and Population Genetics, with a keen interest of working with plants. You have experience and have published in quantitative genetics and/or population ecology. You appreciate working in a team environment and have a self-organized and solution-oriented work attitude. You are willing to collaborate in ongoing research projects in the lab, as well as to support the team in teaching and advising students on all levels, from the BSc to PhD candidates. Applicants hold a PhD degree and have some postdoctoral experience.

We offer The initial appointment is for 2 years; based on performance, the fellowship is renewable for up to four more years. The University of Basel has generous resources for analysis of quantitative genetics and genomic data (scientific high-performance computing, data management, training and support). Furthermore, our Department of Environmental Sciences offers a stimulating environment, including a rich spectrum of research activities in life sciences (ecological genomics, population genomics, evolutionary biology, plant ecology, physiology and molecular and cell biology). Finally, Basel is a mid-sized Swiss city, well connected and offering a broad range of cultural and recreational activities.

Application / Contact Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) a 1-page research statement, (3) a 1-page teaching statement, (4) their CV with publication list, and (5) contact information of two references. We accept only online applications. Link: https://jobs.unibas.ch/offene-stellen/postdoctoral-position-in-plant-evolutionary-ecology-and-climate-adaptation/5088eefa-229b-4540-8549-a0c69eb2f259 Applications are welcome until the position is filled and will be reviewed starting December 15, 2022. For more information, contact Yvonne Willi (yvonne.willi@unibas.ch)

Prof. Dr. Yvonne Willi Plant Ecology & Evolution Dep. of Environmental Sciences University of Basel Schï¿½$\frac{1}{2}$nbeinstrasse 6 4056 BASEL Switzerland

Phone: +41 61 207 23 20 Fax: +41 61 207 23 30 Email: yvonne.willi@unibas.ch

Yvonne Willi <yvonne.willi@unibas.ch>

Berlin DemographicModelling

Postdoc in demographic modelling

The position is part of a project on the demographic resilience of wildlife populations ("WILDER"), funded by the German Federal Ministry of Education and Research (BMBF). In this project, we will develop a new approach to quantify the demographic resilience of wildlife populations to environmental changes. This approach should account for the time-varying character of demographic resilience and will be applied to unique long-term datasets from two populations of free-ranging spotted hyenas (Crocuta crocuta) in the Serengeti National Park and in the Ngorongoro Crater in Tanzania, collected over a period of 35 and 26 years, respectively. These two populations differ in their ecology and in the disturbances they experience, including various kinds of anthropogenic disturbance.

Deadline to apply December 2.

The candidate is expected to develop a workflow, and a corresponding R package, for estimating time-varying demographic resilience. This approach will then be applied to the two populations of spotted hyenas to study their disturbance regimes, and to quantify their impacts on both populations. The candidate will collaborate closely with a PhD candidate already working on similar aspects of this project. The precise methods to be applied will depend on the candidate, but could include approaches such as matrix population models, integrated population models (IPMs), individual based models (IBMs), or empirical dynamic modelling (EDM).

The selected candidate will be mentored by four senior scientists with complementary expertise: Dr Viktoriia Radchuk, Dr Oliver Honer & Dr Sarah Benhaiem from Leibniz-IZW and Prof Adam Clark from the University of Graz.

Within the WILDER project we will organise 1) a series of international workshops for early career researchers to improve their quantitative skills, 2) annual retreats to discuss the project with international experts in population biology, 3) a symposium to disseminate the project results. These activities, along with the attendance of national and international conferences, will allow the selected candidate to develop a broad collaboration network and master teaching and organisational skills.

Requirements:

- Doctorate in population ecology, demography, biostatistics, ecology, biology, zoology, bioinformatics, environmental sciences, or related fields. We also encourage holders of doctorates in mathematics, statistics, or physics to apply; - Solid experience in statistical analyses and programming in R; - Documented ability to publish peer-reviewed papers; - Documented proficiency in English (oral and written); - Ability to work both independently and as part of a team; - Good interpersonal and communication skills.

Beneficial:

- Experience in working with individual-based, longitudinal datasets; - Experience in developing R packages; - Background in population ecology, behavioural ecology and stability ecology.

The position is expected to start on 1 March 2023 and is limited to 30 months. Working hours comprise 39 hours per week (100 %), with salary according to TVoD (Bund).

As a member of the Leibniz Association the IZW is an equal opportunity employer, determined to increase the proportion of women in successful scientific careers, and particularly encourages women to apply. Preference will be given to disabled applicants with the same qualifications. We promote diversity and welcome applications regardless of gender, origin, sexual orientation and religion.

Enquiries or questions should be directed to Dr. Viktoriia Radchuk (radchuck@izw-berlin.de, Tel.: +49 (0)30 5168-454), Dr Sarah Benhaiem (benhaiem@izw-berlin.de, Tel.: +49 (0)30 5168-466) and Dr Oliver Honer (hoener@izw-berlin.de, +49 (0)30 5168-516)).

Applicants should submit 1) a letter of motivation highlighting particular skills for this position (maximum 1 page), 2) a CV (maximum 3 pages), 3) copies of relevant degrees, 4) a list of publications and 5) the feedback (or alternatively the names and contact details) of two referees.

Applications are due on 2 December 2022 by 23:59 via the IZW's job-application facility (

https://leibniz-institutfuerzoo-undwildtierforschung.softgarden.io/job/24742294/-Postdoc-in-demographic-modelling-starting-1st-March,-2023?jobDbPVIdb062374&lï ¿$\frac{1}{2}$, button "Apply online").

Finalist candidates will be informed by email within a few days of this deadline, and will be invited to short individual interviews. Interviews will likely take place on 8 December 2022, via video call. Finalist candidates will be asked to prepare a short (ca. 10 min) presentation of their previous and current research.

We are looking forward to your application!

"Benhaiem, Sarah" <benhaiem@izw-berlin.de>

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CarletonC Minnesota EcologyEvolution

Unique postdoc opportunity at Carleton College in Minnesota- come teach and do research at a top liberal arts school while being part of a collaborative research team.

The postdoctoral fellow will join Dr. Amanda Hund's research group at Carleton, as part of a collaborative research team that includes Dan Bolnick (U. Connecticut), Jessica Hite (UW-Madison), Sebastian Schreiber (UC-Davis), and the Biodiversity Research Institute. The NSF funded project is studying how ecology, behavior, and immunology within threespine stickleback, common loons, and copepods shape transmission dynamics of the tapeworm S. solidus. The postdoctoral fellow will help coordinate research across the collaboration and will help lead both field and lab research. The position will involve both teaching (1?¿'2 courses per year) and research, including mentoring and supervising teams of undergraduate researchers in the field. The initial appointment will be 15 months, but funding is available to extend the appointment to a total of 4.5 years.

Learn more about the position and apply here: https://careers.carleton.edu/en-us/job/492926/-postdoctoral-fellowship-in-ecology-and-evolution
*Amanda Hund *(she/her/hers) Visiting Research

Assistant Professor Biology Department, Carleton College Website < https://amandahund.weebly.com/ > Make an appointment < http://calendly.com/ahund >

ahund@carleton.edu

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ChapmanU TeachingResEvolution

The application for postdoctoral teaching and research fellows for the Grand Challenges Initiative (https://www.chapman.edu/about/our-home/keck-center/gci/index.aspx) here in the Schmid College of Science and Technology and Fowler School of Engineering at Chapman University just opened (due Jan 9).

WHY IT MATTERS:

Fellows in the program gain valuable experience by

- Teaching critical thinking, foundational problem solving, and communication skills to our first-year STEM students - Conducting Research with a faculty mentor §Being involved in a world-class postdoctoral mentorship program (https://blogs.chapman.edu/-gci/2022/07/21/grand-challenges-initiative-program-highlighted-in-science/) and a community of fellows that is leading to great results - openings in the program this year are anticipated as a result of current fellows moving on to tenure track faculty positions.

HOW IT WORKS

- Fellows split their time about 70:30 research and teaching; they have no teaching obligations during interterm or summer. - The position is renewable for up to three years and includes a generous salary ($65,000 per year), full benefits, and research stipend ($5000 per year).

WHAT'S NEXT

- Many faculty at Chapman are excited about being mentors for fellows in this program, Including me! I work in computational biology/bioinformatics/microbial ecology/genomics/metagenomics/popgen - see more here https://microbialgamut.com/ and please reach out if you are at all interested (or feel free to pass along the opportunity). - The full job description can be found here: https://academicjobsonline.org/ajo/jobs/23015 Please do not hesitate to reach out if I can provide additional information. As always, many thanks for your time and attention.

Best,

JL

JL Weissman, Ph.D *pronouns: they/them/theirs* *or** she/her/hers* *... I'll happily accept either* *(see: *https://pronoun.is/they/.../themselves, https://pronoun.is/she) Simons Foundation Postdoctoral Fellow in Marine Microbial Ecology https://-microbialgamut.com/ jakeweis@usc.edu

jw4336@terpmail.umd.edu

"jw4336@terpmail.it-prod-webhosting.aws.umd.edu"

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CornellU DiseaseEvolution

Disease Ecology/Microbiome PostdocCome join an incredible collaborative team with the power to do experimental host-pathogen work on disease transmission with a cultureable marine pathogen. Full-time position in a National Science Foundation Ecology and Evolution of Infectious Diseases (EEID) funded project, focused on understanding evolutionary ecology of Eelgrass Wasting Disease. The EEID project includes experimental lab, field and modeling components and 4 different postdoc positions across 4 different PIs (Harvell, Burge, Groner, Hofmann). This postdoc position is focused on experiments to test the role of the eelgrass microbiome in disease resistance and controls on disease transmission and will be resident at Friday Harbor Laboratories for all or part of the year.

The Postdoc will be encouraged to present at national and international meetings, actively participate in project-related meetings/workshops and develop mentoring skills with an undergraduate summer intern.

Required Qualifications:

A Ph.D. in Marine Molecular Ecology/Evolution or equivalent is required and experience with microbiomes and molecular methods to support microbiome research such as experience analyzing and managing microbial data using appropriate bioinformatics pipelines and programs. Familiarity with marine ecosystem dynamics and marine or terrestrial disease processes is desirable.

Consideration of applicants will begin on 20 November 2022 for a start date of March 2023. Please contact Drew Harvell (CDH5@Cornell.edu) for more information. Online link for applications https://-

academicjobsonline.org/ajo/jobs/23288 Drew Harvell <cdh5@cornell.edu>

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

"Whitaker, Rachel" <rwhitakr@illinois.edu>

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CRWoeseInst UIllinois MolecularEvolution

The Carl R. Woese Institute for Genomic Biology at the University of Illinois Urbana-Champaign offers fellowships for truly exceptional young scholars who have completed their PhD or other relevant terminal degree within the last two years, looking for a stimulating and supportive interdisciplinary environment to carry out both independent and collaborative research. IGB Fellows typically spend two years conducting research in one of several research themes in the Institute, ideally overlapping with two or more of these thematic areas. The annual salary is $58,000, in addition to a $7,500 research allowance. Please contact rwhitakr@illinois.edu to discuss your interest in the specific position in IGOH listed below and visit https://www.igb.illinois.edu/article/apply-igb-postdoctoral-fellowship to apply.

Infection Genomics for One Healthï¿½ < https://www.igb.illinois.edu/research-areas/igoh > IGOH takes a comparative approach exploring dynamics of mobile genes and genomes in many different microbial ecosystems. Fellows will study multi-scale dynamics of antibiotic resistance in one health, working in a collaborative team to integrate large scale high-through-put single-cell genomic tools to identify reservoirs, transmission routes, and evolutionary dynamics of antibiotic resistance in local one health agricultural ecosystems. Expertise in plasmid biology, single-cell genomics, microbial population biology, public health, antibiotic resistance or scientific communication and outreach (especially those who are bilingual) preferred. Interest in investing in solutions to the urgent multi-scale challenge of antibiotic resistance is required.

RACHEL WHITAKER

Professor Department of Microbiology Theme Leader: Infectionï¿½Genomics for One Health < http://www.igb.illinois.edu/research-areas/igoh > Carl R. Woese Institute for Genomic Biology

University of Illinois at Urbana-Champaign 601 S. Goodwin Ave. C224 CLSL | M/C 110 Urbana, IL 61801 217.244.8420 | rwhitakr@illinois.edu

CzechRepublic EvolutionaryVirology

Description: Our group studying Evolutionary interactions of the holobiont is recruiting a postdoc in evolutionary virology. We work at the Institute of Vertebrate Biology, Research Facility Studenec, Czech Academy of Sciences.

The project: We are using the well-described species barrier of the European house mouse hybrid zone (HMHZ) as an optimal context to investigate the factors involved in viral emergence with particular focus on recombination and reassortment. For this, we will perform an extensive genomic characterisation of house mouse viruses across the European HMHZ and in the sympatric rodent community using Metagenomic approaches. We will use a probe enrichment step before sequencing to enhance the sensitivity of detection of low-titer viruses and to improve their genome assembly. This characterisation will be performed across our standard transect of the HMHZ, the Bohemia-Bavarian region, but also replicated in the Bulgarian part of the HMHZ where the mouse subspecies came into contact earlier and with different environmental conditions in terms of the sympatric rodent community structure. This will provide power to distinguish virus processes strongly depending of host intrinsic factors from those sensitive to environmental conditions.

The post-doc researcher will be responsible for generating and analyzing metagenomics data to characterize the virus community of the HMHZ and local rodent species. The highly prevalent and geographically widely distributed virus species will be further analysed to investigate regions of the viral genomes that recombine in the context of the host hybrid zone. The candidate will have the possibility to participate in field sampling in Czech Republic, Germany and Bulgaria.

Environment: The post-doc will work in a small team (https://www.ivb.cz/en/team/holobiont-evolutionary-interactions-group/) at the Institute of Vertebrate Biology of The Czech Academy of Sciences, at Research Facility Studenec (https://www.ivb.cz/en/workplace/-

external-research-facility-studenec/). The postdoc academic advisors (Joelle Gouy de Bellocq and Stuart J.E. Baird) specialise in evolutionary parasitology, molecular biology and population genetics/genomics. The institute is situated in woods beside a lake in the Czech-Moravian highlands, half an hour from Brno, the second city of the Czech Republic, where there is the large campus of the Masaryk University. The rolling hills and woods of the region are popular with cyclists. At the institute work discussion is in international English. Due to the location of the facility a personal car is useful, but not necessary (there is a train station 10 mins walk from the institute).

Qualifications: - PhD in evolutionary biology, parasitology, virology or bioinformatics - Evidence of research productivity, including first author publications though the existing work of the candidate will be judged on its quality and utility to the scientific community rather than gross number of publications. - Ability to work independently - Good writing skills - Coding skills (R, Python) and previous experience working with large genome-scale datasets - Motivation to mentor undergraduate and graduate students

Salary and duration: The gross monthly salary will be 40,000 CZK + performance bonus. The cost of living in Czech republic is low. Starting date: 1st of January 2023. Subject to yearly review, the position is renewable and funding available till December 2024.

Candidates should submit a short CV and letter of interest in a single PDF file to Joelle Gouy de Bellocq (joellegouy@gmail.com), who is the principal investigator of the project. The work will be carried out in close collaboration with Stuart J.E. Baird (https://-www.ivb.cz/en/person/stuart-j-e-baird/) a specialist on speciation genetics/genomics inference. Applications will be read directly by the academic advisors and interviews will be held until a suitable candidate is found.

Joelle Gouy de Bellocq <joellegouy@gmail.com>

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

HarvardU Arboretum PlantEvolution

Global Change Postdoctoral Fellowship

The Global Change Postdoctoral Fellowship at the Arnold Arboretum of Harvard University gives early career scientists a unique opportunity to start a research career as an independent postdoctoral fellow while gaining training and connections within the framework of a top-tier academic environment. The Global Change Postdoctoral Fellowship supports researchers that utilize the myriad resources of the Arnold Arboretum to tackle any area of global change science.

The Arnold Arboretum of Harvard University and its urban landscape in Boston are particularly well-suited for global change research. It is both an outdoor museum of the world's temperate trees and other woody plants grown in a public open space, all within sight of the Arboretum's state-of-the-art research laboratories and greenhouses at the Weld Hill Research Building.

Deadline: Jan 11

Eligibility:

Proposals are sought from early-career individuals with a PhD in life sciences, plant biology, evolution, plant genetics, plant ecology, horticulture, or related discipline. Applicants should be well positioned to conduct original, independent research and to publish their findings in peer-reviewed publications.

Fellowship Details: Global Change Fellows are full-time employees of Harvard University with a salary of $83,000 per year, employee health insurance eligibility, and annual support of up to $10,000 for research, travel, initial relocation, and other professional expenses. Fellows are expected to be in full-time residence at the Arboretum during their 2-year tenure and are provided office and research space. Fellows can start as early as July 1 or as late as the beginning of September.

The Global Change Fellowship is an independent postdoctoral position. As an independent scholar, Putnam Fellows have access to shared laboratories, resources, and interactions with fellow scientists, students and staff. It is not necessary to have a specific faculty host.

In addition to being a member of the Arnold Arboretum staff, Global Change Fellows are part of the Environmental Fellows cohort at the Harvard University Center for the Environment (HUCE). Fellows participate in the co-curricular Environmental Fellows program organized by HUCE. All fellows join in biweekly dinners along with Harvard faculty and a speaker from amongst the Harvard faculty.

More information: https://arboretum.harvard.edu/-research/programs-and-opportunities/global-change-postdoctoral-fellowship/ Faye Rosin, PhD Director of Research Facilitation Arnold Arboretum of Harvard University 1300 Centre St Roslindale, MA 02131

Office: Weld Hill W225 phone: (617) 384-5095

frosin@oeb.harvard.edu http://arboretum.harvard.edu/ "Rosin, Faye M" <frosin@oeb.harvard.edu>

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

Sin (sinyw@hku.hk). Review of applications will begin immediately and continue until the position is filled.

pskmmsin@gmail.com

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

HongKongU EvolutionaryPopulationGenomics

Postdoctoral Positions in Evolutionary and Population Genomics

We are looking for Postdoctoral Researchers to work on genomics projects on non-model species (mainly birds). The lab has several study systems and active projects addressing genotype-phenotype association, comparative genomics, and population genomics. A key focus of the lab is to use genomic, epigenomic and transcriptomic data to understand the genetic basis and evolution of phenotypic traits. Collaborative projects are already underway, ensuring a quick and productive start. The Postdoctoral Researchers will have extensive opportunities to interact with collaborators and involve in different evolutionary and population genomics projects.

Duration: The initial appointment is for one year, with renewal based on performance. Funding is available for two years. This is a full time appointment.

Qualifications: Applicants must have completed a PhD (or will have completed a PhD before the position start) in bioinformatics, genomics, evolutionary biology, population genetics, or a related discipline, with a demonstrated record of research achievement (via publications). They will also be proficient with programming in a scripted language (e.g. Python, Perl, or R). Experience with shell scripting and computing cluster environments and/or experience working with whole genome datasets in population or comparative genomics will be beneficial.

Working Environment: The University of Hong Kong is an English-speaking institute and one of the most international universities in Asia. It has a rank of 30 according to the Times Higher Education World University Rankings 2022.

Start Date: Flexible in 2023.

Salary: A highly competitive salary plus annual leave and medical benefits will be offered.

How to apply: Please send a CV (with contact information for three references), cover letter describing research interests and skills, and copies of publications to Simon

IndianaU EvolDevPlasticity

Postdoctoral Fellow: evaluating the proximate causes and evolutionary consequences of developmental plasticity

We are seeking a highly motivated and creative individual to join the Ledón-Rettig lab as a Postdoctoral Fellow at Indiana University. We use interdisciplinary approaches to understand both the proximate mechanisms mediating developmental plasticity and its ecological and evolutionary outcomes. To answer these questions, we use spadefoot toads, whose larvae exhibit extraordinary developmental plasticity in response to dietary and social cues; further, this plasticity is associated with the evolution of novel and complex traits, such as predaceous and often cannibalistic behaviors. A successful candidate will combine transcriptomic, genomic, endocrine, behavioral and morphological analyses to understand (1) how these traits arose evolutionarily, and (2) how early life responses to the environment carry-over into adulthood and future generations, through transgenerational mechanisms.

We use this non-model amphibian because of its unique environmental responsiveness, yet, the system offers an abundance of tools for molecular investigation, including several species with published genomes and transcriptomes. We currently house a colony at Indiana University to facilitate controlled, experimental investigation of developmental plasticity, and collect our animals from the field, both locally and in the Southwestern United States.

For more information on our group, please visit our lab website (ledonrettig.com)

Indiana University:Indiana University hosts several mechanisms for postdoctoral training. We are the home of CISAB, the Center for the Integrative Study of Animal Behavior, which provides laboratory, networking, and funding resources for behavior research. We are also home to NCGAS, the National Center for Genome Analysis Support which provides training and workshops to those using genomic data. Additionally, our lab is

positioned down the hall from IU's Center for Genomics and Bioinformatics, which provides library construction and next-generation sequencing, as well as consulting.

Location:Bloomington is a culturally rich community in close proximity to outdoor activities such as hiking and kayaking. Bloomington offers an abundance of live music, art galleries, a variety of festivals and weekly farmers markets.

Minimum qualifications:A PhD is required by the start of the appointment; expertise in any area of science will be considered, as long as the applicant is enthusiastic towards the goals of our research. Evidence of previous scientific scholarship is necessary. Experience with next-generation sequencing data analysis and computational genomics is highly desirable, but not required.Salary:Commensurate with qualifications and experience, plus benefits.

Best consideration date:November 30.2022

Anticipated start date:April 2023, although specific start date is negotiable

To apply:Please submit(1) a cover letter explaining their scientific background and reasons for wanting to join our group (2) a curriculum vitae with publication list and (3) contact information for three professional references to:https://indiana.peopleadmin.com/postings/13695 For additional questions about the position, please contact Dr. Cris Ledón-Rettig (crisledo@indiana.edu).

The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

Cristina C. Ledón-Rettig, PhD (she/her)

Assistant Professor of Biology Indiana University 915 East Third St Bloomington, IN 47405, USA ledonrettig.com

"Ledon-Rettig, Cris" <crisledo@indiana.edu>

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

INRAE Bordeaux VitisGenomicVariation

POSTDOC_INRAE_BORDEAUX: GENOMIC VARIATION BETWEEN WILD GRAPEVINE RELATIVES (VITIS SP.)

Understanding the genetic basis of adaptive phenotypes is a question of foremost interest in evolutionary biology.Genome Wide Association Studies (GWAS) and QTL mapping have provided essential information to understand the genetic basis of complex traits through the identification of genetic variants affecting relevant traits for adaptation. However, in most species, the genetic variants associated with phenotypic variation account for only small fraction of trait heritability, as estimated through pedigree analysis, causing the so-called 'missing heritability' paradox. Different causes could explain the 'missing heritability' paradox. One of them, is that structural variants (SVs, i.e. large genomic alterations typically classified as deletions, duplications, insertions, inversions, and translocations), which is not usually accounted for in genotype-phenotype association studies, can have a pronounced phenotypic impact disrupting gene function and regulation or modifying gene dosage. Despite the importance of SVs, they have been largely understudied because they are much more difficult to identify and genotype.

Knowledge on the genetic basis of root adaptive traits is scarce because of the difficulty to phenotype this underground plant organ, especially in perennial plants.

One strategy to improve the knowledge of the genetic architecture of complex phenotypes relies on the use of intermediate phenotypes, such as metabolites or RNA transcripts. An intermediate phenotype can be defined as a mechanism-related manifestation of complex phenotypes. They allow for higher throughput phenotyping and usually present simpler genetic architectures, high diversity and heritability. All these characteristics foster their use as molecular proxies of root function and development.

The VitOmics project aims to identify the molecular determinants (genomic and transcriptomic) of adaptive traits (biotic and abiotic response) in wild Vitis species To reach this objective, three specific goals will be addressed: 1.Study the genomic variation (SNPs and SVs) of regions underlying key traits for grapevine roots development andfunctioning: QTL-meta- analysis and

Differentially Expressed Genes (DEG) approach.

2.Identification of molecular determinants (transcripts) of root drought responses to improve the phenotyping of roots in genetic studies: identification of intermediate phenotypes.

3.Exploration of Vitis adaptive response from an integrative approach: genomic and transcriptomic data integration.

We are seeking for a highly motivated postdoc that will be in charge of:

Identification of Differentially Expressed Genes (DEG) in response to drought in roots of wild Vitis species from RNA-seq data.

Identify genetic polymorphisms between different Vitis species from whole genome sequencing.

Perform a QTL meta-analysis for Vitis species.

Inspect genomic variation at whole genome level and for specific regions of interest (meta-QTL and DEG) between wild Vitis species.

Training and skills required

-Recommended training: PhD in genomics or bioinformatics.

-Knowledge required: Quantitative or population genomics.

-Appreciated experience: Previous experience working with NGS data will be appreciated. Record of scientific publications from previous work.

-Skills sought: interest in understanding the genetic basis of phenotypic variation in plants, team-working and independent thought.

INRAE's life quality

You will be welcomed in joint research unit Ecophysiology and Functional Genomics of grapevine (UMR EGFV) located in the surrounding area of Bordeaux. The EGFV gathers a wide range of interdisciplinary skills, from ecophysiology to molecular physiology, through biochemistry and genetics

By joining our teams, you benefit from (depending on the type of contract):

- until 30 days of annual leave + 15 days "Reduction of Working Time" (for a full time); - parenting support: CESU childcare, leisure services; - skills development systems: training, career advise; - social support: advice and listening, social assistance and loans; - holiday and leisure services: holiday vouchers, accommodation at preferential rates; -sports and cultural activities; - collective catering.

-Type of contract: postdoctoral position

-Duration of the contract: 24 months

-Starting date: 1st January 2023

-Remuneration: according to the experience (from 2600 euro /month gross salary)

How to apply Send a motivation letter and a CV by email toMarina de Miguel Vegamarina.de-miguel@inrae.fr//

Marina de Miguel Vega <marina.de-miguel@inrae.fr>

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

LMU Munich BehaviouralEvolution

Research Associate position - Akademische Ratsstelle auf Zeit Behavioral Ecology Group at LMU Munich

Application deadline: 01.12.2022

Description. We have an opening for a Research Associate in the Behavioural Ecology Group at LMU Munich, Martinsried, Germany. This fixed-term position is available intially for 3 years and is normally extended for another 3-years, after which a final extension is possible for candidates interested in doing a Habilitation (the highest educational degree in Germany). The position is available for early-career scientists holding a PhD-degree. Competitive candidates have (a) few years of postdoc experience.

Research. The Research Associate will closely collaborate on research programs developed by the Chair in Behavioral Ecology (Prof. Dingemanse), and/or develop a fully independent research program. Succesful candidates may do the former in the first three years, and the latter in the second three years. The Research Associate will finance the research through third-party funding acquired in open competition from e.g., the German Science Foundation (DFG), and produce high-quality research and papers.

Teaching. The position comes with the requirement to teach 5 SWS (Semester Wochenstunden) in both the summer (April-July) and the winter (Oct-Feb) semester. The Research Associate will co-teach basic courses in ecology in the 3rd and 4th semester of the BSc-Biology and Teacher (Lehramt) program. The Research Associate will further teach softskill and advanced courses (in evolutionary and behavioral ecology, statistics) in the MSc-program Evolution, Ecology and Systematics

(EES-LMU), and supervise EES-LMU Individual Research Training (IRT), BSc- and MSc-thesis projects. Competitive candidates are able to give stimulating, engaging, and interactive presentations; prior teaching experience is not strictly required.

Requirements. The successful candidate should have a firm background training in behavioural ecology, life history, and/or quantitative genetics theory. Ideal candidates have advanced analytical and programming skills, are dedicated to contribute to open and reproducible science, and seek to actively contribute to a sustainable world. Competitive candidates have experience or interest in coordinating our longitudinal data collection of behavioural and life-history data in wild cavity-breeding passerine birds (tits, sparrows), managing our large relational databases, and collaborating with international collaborators (e.g. SPI-Birds members), for example on social selection and evolution, or eco-evolutionary dynamics. Our group is equipped with multiple climate rooms and tracking software suitable for experimental work on insect behaviour(al genetics); this offers many further opportunities for research and teaching using e.g. insects as a model. (We currently work with the southern field cricket Gryllus bimaculatus as main model).

Project duration and starting date. Successful candidates will be offered an A13 position for the duration of three years, which is normally extended by another three years. The earliest starting date is 01.01.2023, the latest starting date 01.04.2023.

Application package. Candidates should send a motivation letter and CV to Prof. N. Dingemanse over email (n.dingemanse@lmu.de). Submission deadline is 01.12.2022.

Niels J. Dingemanse Professor of Behavioural Ecology Department of Biology Ludwig-Maximians University of Munich (LMU) Großhaderner Straße 2, Room B02.008 82152 Planegg-Martinsried

Phone: +49 (0) 89 2180 74 209 Fax: +49 (0) 89 2180 74 204 Website: https://www.behavioural-ecology.bio.lmu.de/ Twitter: @DingemanseLab

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

LundU Sweden LizardEvolutionaryGenomics

The research group of Tobias Uller and Nathalie Feiner (http://feiner-uller-group.se/) at Lund University (Sweden) is recruiting a postdoctoral researcher in evolutionary genomics. Funding is available for three years.

Summary: Mediterranean wall lizards (genus Podarcis) are famous for the extraordinary diversification in body colouration. Building on excellent genomic and phenomic resources, the postdoc will use whole-genome resequencing to establish the role of introgressive hybridization in the generation and maintenance of colour patterns. The preferred start date is some time during the first quarter of 2023, with some flexibility.

Your role: You would contribute to the design of the study, contribute to field and laboratory work, lead the bioinformatics analyses, and disseminate the results. The position offers opportunities to develop your own research interests and supervision skills. We encourage collaborations within and outside Lund University.

Your qualifications: We look for someone with a strong interest in evolutionary biology, and with extensive experience of analysing genomic data in a phylogenetic and/or phylogeographic context. Experience of field work in herpetology is an advantage. You must have a PhD in a relevant area, and should demonstrate a commitment to basic research, good work ethics, computational skills, organizational ability, and publication productivity.

How to apply: Submit your application, CV and cover letter via this link by Nov 17 2022: https://lu.varbi.com/en/what:job/jobID:550163/-type:job/where:4/apply:1 For more information on this project and the position, please contact Prof. Tobias Uller (tobias.uller@biol.lu.se). For more information on our research, please visit us at http://feiner-uller-group.se/ . Tobias Uller, Professor of Evolutionary Biology Department of Biology Lund University www.biology.lu.se/tobias-uller www.feiner-uller-group.se "tobias.uller@biol.lu.se" <tobias.uller@biol.lu.se>

Montpellier TheoreticalPopulationGenetics

Postdoc in theoretical population genetics and eco-evolutionary modeling, CEFE Montpellier, France

We (Luis Miguel-Chevin and Carol Eunmi Lee) are hiring a Postdoctoral Researcher for 24 months to model eco-evolutionary dynamics of evolutionary rescue in response to rapid climate change, as part of a French ANR grant ("Make Our Planet Great Again," MOPGA program).

Context: This project (RapidEvol) aims to understand the potential for evolutionary adaptation and population persistence in the face of climate-induced salinity decline and temperature rise, focusing on the copepod Eurytemora affinis, a dominant component of marine zooplankton. Salinity is rapidly declining in many high latitude coastal regions, including the Baltic Sea, due to increases in ice melt and precipitation, threatening the sustainability of fisheries that rely on copepods as their main food source. To elucidate the mechanisms of salinity and temperature adaptation and their links with demography under changing salinity, RapidEvol applies a unique integration of physiological analyses, genome-wide association studies, selection experiments, and theoretical modeling.

Main mission: The postdoc for this particular position will carry out the theoretical part of the project. The objective is to build a model that integrates life history traits (e.g., absolute fitness at different salinities) to determine how selection on beneficial alleles can lead to demographic rescue of the population. In particular, the model will include specific information on the genes that exhibit signatures of parallel adaptation in this system, consisting of ion transporters responsible for ion uptake. Selection and epistasis among these major genes will be key elements of the model, together with putative background polygenic variation for fitness not attributable to these major genes. All these elements will be calibrated with results from laboratory selection experiments (in response to salinity and temperature) and GWAS studies performed in the Lee Lab.

Activities: The postdoc will actively participate in model design, in collaboration with the supervisors. The models will be informed by the experimental results in the system. We will formulate and analyze several model versions along the trade-off between generality and realism. In simpler versions of the model, we will aim for analytical results that will broaden our general understanding of eco-evolutionary dynamics in this context. In more explicit versions of the model that allow for more realistic genetics and ecology, we will rely on individual-based simulations, which we will interpret as much as possible in light of analytical findings from simpler contexts.

Competencies & qualifications: The successful candidate will hold a PhD in evolutionary biology, bioinformatics, ecology, or related fields. Experience with individual-based simulations (or other computer-intensive approaches) is required, and solid mathematical training is an important criterion. We will preferentially select candidates with a background in theoretical population genetics and/or eco-evolutionary dynamics. Excellent interpersonal skills are also required for this collaborative project.

Work conditions: The postdoc will be based at the CEFE, France's largest ecology and evolution institute, with regular visits to the marine institute MARBEC, both located in Montpellier (France). Montpellier is a worldwide hotspot for ecology and evolution, with a notably large community of evolutionary geneticists and theoreticians. Within the CEFE, the postdoc will be part of the Evolutionary Genetics and Ecology team, which includes 12 permanent researchers with their groups, covering a wide variety of topics. The modeling work will be carried out in close collaboration with Luis-Miguel Chevin, CNRS researcher director at CEFE, with regular exchanges with Carol Eunmi Lee (the main PI of RapidEvol), and other members of this project. Wages will follow rules from the University of Montpellier, and will depend notably on experience. French salaries include full health and social benefits.

Application process: Applicants should send a single PDF file including a cover letter (maximum 2 pages), a CV with a list of publications, and the contacts for 3 references, to Luis-Miguel CHEVIN (luis-miguel.chevin@cefe.cnrs.fr) and Carol E. Lee (carollee@wisc.edu), before January 7th 2023.

More information of the host groups can be found at:

https://www.cefe.cnrs.fr/fr/recherche/ee/gee/800-c/-474-luis-miguel-chevin https://lmchevin.weebly.com/ https://carollee.labs.wisc.edu/Lee.html Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

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MortonArboretum TreeGenomicsBreeding

The Morton Arboretum is a world-renowned nonprofit outdoor museum dedicated to the study and growth of trees. We are seeking a highly motivated individual to join the international team of researchers who are part of the Center for Tree Science in our effort to improve trees and enhance their ability to meet the challenges of the future. The McQuaid Postdoctoral Fellowship in Tree Genomics will collaborate with the US Forest Service Northern Research Station's EAB-resistant ash breeding program. Utilizing resources from this program that include phenotyped, pedigreed families, the fellow will work to identify quantitative trait loci data from the results of a bioassay that reproducibly measures differences in response to EAB, leading to a genotyping platform. Given initial results from a population of F1 crosses, gain in resistance was considerable and heritable. The Fellow will collaborate closely with a community of experts working on this project at a number of institutions, including the University of Notre Dame, Pennsylvania State University, University of Tennessee, and the University of Connecticut. While green ash is the focus of the work, careful consideration will also be given to identifying a generalized approach to rapidly responding to invasive pests and diseases in trees.

To apply, visit https://mortonarb.org/join-support/-employment/ . General Summary: Combine resources, collections, and expertise available at The Morton Arboretum with the latest techniques and facilities available at leading centers for tree genomic research to address important challenges facing trees in a rapidly changing modern world. Leverage strengths of The Morton Arboretum and its research partners to advance tree genomic research and help create effective strategies for improving tree health and sustainability. Funding for this position is temporary and is expected to run for 24 months.

Qualifications: Ph.D. in a biological field required, with expertise in genomics, bioinformatics, population genetics, quantitative genetics, plant breeding, horticulture, or related field. Experience with the necessary technologies and analytical techniques to address the research question is required. Experience with tree breeding and propagation techniques is preferred. Experience working in a distributed team environment, through a combination of in-person and virtual interaction, is beneficial. A successful track record as an emerging research scientist including demonstrated communication with academic and professional audiences through publications, presentations and/or other media, and a commitment to conducting relevant and timely research is required.

Success Factors: Strong analytical and technical abilities. Self-motivated, with the initiative and resourcefulness to implement, evaluate, and report on research projects. Desire to conduct interdisciplinary research with other scientists that result in applied solutions. Ability to work and communicate with a dispersed team. Ability to write manuscripts for scientific peer-reviewed journals and communicate results to a broad audience. Ability to embrace and align with the organization's employee core values to be inclusive, take ownership, work together, keep learning, and make the Arboretum exceptional.

Chuck Cannon <ccannon@mortonarb.org>

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

NorthCarolinaStateU ModelingGeneDrive

Modeling Gene Drives for Controling Mosquito-Borne Infections

We are looking to hire one or two postdocs to work on an NIH-funded project on modeling gene drives for controling infections transmitted by Aedes aegypti mosquitoes.

BACKGROUND: Interest in using genetically-altered mosquitoes to combat mosquito-borne infections has grown rapidly in the wake of recent development of CRISPR-based gene editing technology. Gene drives can be used to spread specific transgenes into a mosquito population either to reduce its size or to render it unable to transmit a particular pathogen. In some situations, uncontrolled spread of a drive could be a concern, so there is often interest in developing drives that are temporally or spatially limited.

OUR WORK: Our group uses modeling techniques to explore the likelihood of success of different approaches. We use a range of models, from simple through to complex, in order to understand the dynamics of proposed

drives and how various biological complexities (such as density dependent population dynamics, spatial structure and mating behavior) will impact gene drive-based control.

Our most detailed model simulates the spatial population dynamics and population genetics of Ae. aegypti in a city, Iquitos, in the Amazonian region of Peru. There are rich data sets on both mosquito dynamics and dengue epidemiology that have been collected in this city. One important characteristic of this mosquito is limited among-house movement and strong population structure.

JOB DESCRIPTIONS: We are looking for applicants with a solid background in population biology and population genetics who have experience with modeling and who want to do applied research. We have some flexibility in these positions, but ideally would like to hire one person who would work on conceptualizing novel drive strategies and another who would focus more on exploring the success of drives in ecologically-rich models. For the second position, experience with C++ or related languages would be desirable. For both positions, the ability to work independently and to communicate effectively as a member of a team is essential.

Our project is strengthened by collaborations with a number of labs in the US and in Peru, and activity in the Genetic Engineering and Society Center at NC State that examines societal aspects of novel genetic technologies. The postdoc will interact with members of these other research groups. If desired, there will be an opportunity for some work in Peru and for mentoring undergraduate and graduate students. The appointment is for two-years with the potential to write new grants for extension beyond that period.

Dhole S, Lloyd AL, Gould F. 2020. Gene drive dynamics in natural populations: the importance of density-dependence, space and sex. Annu. Rev. Ecol. Evol. Syst. 51:505-31

Magori K, et al. 2009. Skeeter Buster: a stochastic, spatially explicit modeling tool for studying Aedes aegypti population replacement and population suppression strategies. PLoS Neglected Tropical Diseases 3 (9), e508

To apply: email a cover letter and CV to fred_gould@ncsu.edu AND alun_lloyd@ncsu.edu

Fred Gould <fgould@ncsu.edu>

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

OklahomaStateU EvolutionaryBiomechanics

Post-doctoral position in biomechanics and macroevolution

OVERVIEW OF POSITION A postdoctoral position is available in the Moen lab in the department of Integrative Biology at Oklahoma State University. The position will be part of a team working on an NSF CAREER grant. The grant bridges integrative research on macroevolution and biomechanics with educational and outreach activities closely aligned with the project's research methods and aims.

The project's key goal is to understand how locomotor mechanics affect macroevolution of morphology and performance in frogs and toads. The research will integrate fieldwork, experimental work with live animals, muscle physiology, computational modeling, and phylogenetic comparative biology. The post-doc will also have the opportunity to design and work on related but original projects.

The post-doc will additionally contribute toward the grant's educational and outreach goals. This includes mentoring secondary-education science teachers and coordinating workshops on phylogenetic comparative methods.

REQUIREMENTS AND PREFERRED SKILLS A Ph.D. in any related fieldï¿½$\frac{1}{2}$ "including (but not limited to) biology and engineeringï¿½$\frac{1}{2}$" is required prior to starting the position. Strong applicants will have experience in one or more of the following research areas: biomechanics, muscle physiology, functional morphology, computational modeling, and phylogenetic comparative biology. Skills in Matlab, Mathematica, and especially R are helpful but not required. More than specific experience and skills, we are seeking highly motivated applicants with a desire to work both independently and as part of a team. In the Moen lab we strongly value a diverse and inclusive environment, so we particularly encourage applicants that can contribute to that goal.

APPLICATION AND POSITION DETAILS Start date: The position is available immediately but somewhat flexible.

Duration: Appointment is for up to 8 months, depending on start date. In July 2023 the Moen lab will move to the University of California, Riverside, after which

longer-term renewal will be possible given satisfactory progress and availability of funding.

Application deadline: Review of applications will begin on 21 November, though the position will remain open until a suitable candidate is found.

Applications must include: (1) A cover letter describing experience and goals for the position (2) A full CV (3) The names and contact information (phone numbers, email addresses) of three references.

Please submit applications directly to me (daniel.moen@okstate.edu) as a single PDF and with the subject line "Post-doc application: <Your name>". I can also answer all questions (via email) about the position and applying.

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 . DANIEL S. MOEN Associate Professor Dept. Integrative Biology, Oklahoma State University 517 Life Sciences West Stillwater, OK 74078, USA Email: daniel.moen@okstate.edu Website: moenlab.okstate.edu

"Moen, Daniel" <daniel.moen@okstate.edu>

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

Senckenberg Frankfurt ComparativeGenomics

Job Announcement ref. #12-22014

PostDoc Position in Gene Annotation

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany is looking for an ambitious PostDoc (m/f/d) to apply and develop new gene annotation approaches.

The Project Comprehensively annotating genes in newly-sequenced genomes remains a challenging task. Our lab recently developed TOGA [1], the first method that integrates gene annotation and orthology inference, and used it to provide comparative annotations for >1000 mammals and birds (http://genome.senckenberg.de/). The project aims at developing a new automated strategy to integrate TOGA annotations with transcriptomics (short read RNA-seq and long read Iso-seq) data to produce comprehensive, high-quality gene annotations. We also aim at further improving TOGA by incorporating deep learning predictions into the annotation process. The new strategy will be applied to assemblies of numerous species, including bats, cetaceans, birds, snakes and fish, sequenced by us and collaborators. This will form the basis to uncover key differences in genes and link phenotypic adaptations of these species to differences in their genomes. The postdoc is expected to work closely with other lab members and capitalize on a wealth of existing methods and comparative genomic data.

Our lab The mission of our group is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes sequencing and assembly of referencequality genomes, genome alignment and gene annotation, development and application of comparative genomic methods to discover differences in genes and cis-regulatory elements, and the use of statistical approaches to link phenotypic to genomic changes [1-10]. Our lab is part of TBG (https://tbg.senckenberg.de/) and Senckenberg Research Society, and is based near the city center of Frankfurt am Main, Germany. TBG provides access to cutting-edge computational (HPC clusters, genome browser) and lab infrastructure to sequence genomes. English is the working language in our lab. Senckenberg and TBG provide flexible working hours, an annual special payment, a company pension scheme, the Senckenberg badge for free entry in museums, the zoo, botanical garden and Palmengarten and a leave of 30 days per year. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas. The Economist index recently ranked Frankfurt among the top 10 most livable cities worldwide.

Requirements Applicants should have a PhD degree in bioinformatics/computational biology, computer science, genomics or a related area, and a strong publication record. Solid programming skills in a Linux environment and experience with shell scripting and Unix tools are required. Previous experience in gene annotation, comparative genomics or methods development is an advantage.

Place of employment: Frankfurt am Main Working hours: full time (40 hours/week), optional: part-time (80%) Type of contract: initially limited for 2 years

with the possibility of an extension Salary and benefits: according to the collective agreement of the State of Hesse (pay grade E 13 100%)

The position is fully funded and should ideally start as soon as possible. The employer is the Senckenberg Gesellschaft für Naturforschung who supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

How to apply Please send your application, mentioning the reference of this job announcement (ref.#12-22014), by e-mail to Michael Hiller (michael.hiller@senckenberg.de) and recruiting@senckenberg.de. The application should include the reference number of this job announcement, a CV with publication list and contact information for at least two references, a summary of previous research experience (max 1 page), and copies of certificates, transcripts and grades.

The application deadline is December 15th, 2022.

For more information please contact Prof. Dr. Michael Hiller, michael.hiller@senckenberg.de or visit https://-tbg.senckenberg.de/hillerlab/ . Recent publications [1] Kirilenko BM, et al. Integrating gene annotation with orthology inference at scale. Science, in press, 2022 [2] Blumer et al. Gene losses in the common vampire bat illuminate molecular adaptations to blood feeding. Science Advances, 2022 [3] Roscito et al. Convergent and lineage-specific genomic differences in limb regulatory elements in limbless reptile lineages. Cell Reports, 38(3):110280, 2022 [4] Jebb et al. Six reference-quality genomes reveal evolution of bat adaptations. Nature, 583, 578-584, 2020

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SLU Alnarp Sweden EvolutionaryPhytoPathology

Dear friends and colleagues,

We have a 2-year postdoc position in phytopathology available at SLU Alnarp. The postdoc is expected to harness wild strawberry genotypes and their fungal "body-guards" from across Europe to obtain new knowledge about the evolution of "plant-bodyguard" interactions at the continental scale.

More information and a link to the online application system is available here: https://www.slu.se/en/-about-slu/work-at-slu/jobs-vacancies/?rmpage=-job&rmjob=7482&rmlang=UK   Johan A. Stenberg Professor

Sveriges lantbruksuniversitet Swedish University of Agricultural Sciences

Department of Plant Protection Biology PO Box 190, SE-234 22 LOMMA Visiting address: Sundsviï¿½gen 14 Tel: +46 40 41 53 78 johan.stenberg@slu.se, www.slu.se/stenberg   Nï¿½r du skickar e-post till SLU sï¿½ innebï¿½r detta att SLU behandlar dina person-uppgifter. Fï¿½r att lï¿½sa mer om hur detta gï¿½r till, klicka hï¿½r < https://www.slu.se/om-slu/kontakta-slu/personuppgifter/ >

E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, click here < https://www.slu.se/en/about-slu/contact-slu/personal-data/ >

"Johan A. Stenberg" <Johan.Stenberg@slu.se>

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UBern ExperimentalEvolution

A Postdoctoral Fellowship, funded for up to five years, is available within the Division of Evolutionary Ecology (http://www.ee.iee.unibe.ch/index_eng.html) led by Professor Catherine (Katie) Peichel at the University of Bern, Switzerland on a recently funded Swiss National Science Foundation project "FITNESS: Forward-In-Time Natural Experimental Study of Selection". In this project, we have put over 10,000 stickleback fish into eight empty lakes in Alaska. Using whole-genome sequencing data from these founding fish and knowledge about the ecology of the lakes, we will determine whether the genotypes and the phenotypes of the fish change in a repeatable and predictable way over eight generations.

The Postdoctoral Fellow will be responsible for leading the phenotypic axis of the project, which will involve yearly fieldwork in Alaska, phenotypic analyses of thousands of fish, and sophisticated multivariate analyses.

This project is being carried out in collaboration with Rowan Barrett and Andrew Hendry (McGill University, Canada) and Dan Bolnick (University of Connecticut, USA), and the Postdoctoral Fellow will have an opportunity for extended visits to these collaborating groups. The Postdoctoral Fellow will also work closely with a Bioinformatician in the Division of Evolutionary Ecology, who will be responsible for leading the genomic axis of the project.

The Division of Evolutionary Ecology is a dynamic, international, and interdisciplinary group. We are part of the Institute of Ecology and Evolution at the University of Bern in Switzerland. The Institute currently has seven research divisions spanning a broad range of research in ecology and evolution including conservation biology, behavioural ecology, aquatic and terrestrial ecology, population and evolutionary genomics, and evolutionary theory. Across these divisions, there is a shared interest in the mechanisms that underlie adaptation to changing environments. The Postdoctoral Fellow will have ample opportunities for interactions and collaborations with an international community of graduate students, postdoctoral researchers, and professors. The University of Bern is situated near the heart of the beautiful old city, and the quality of life in Bern is very high.

Candidates must be highly motivated and creative, able to work both independently and collaboratively, and have a strong background in evolutionary biology, morphological analyses, and multivariate statistical analyses. Experience in fieldwork and/or knowledge of aquatic ecosystems is a plus. Candidates must have excellent written and spoken communication skills in English, which is the working language of our institute. A PhD is required. This position is open to applicants worldwide. We are committed to increasing diversity, equity and inclusiveness in evolutionary biology and especially encourage applications from underrepresented groups.

The starting date for the Postdoctoral Fellow is as early as 1 February 2023. The Postdoctoral Fellow must be available for fieldwork in Alaska from 25 May to 10 June 2023. The starting salary is approximately 88,000 CHF (dependent on experience) and includes social security contributions.

Applicants must submit one merged PDF file that includes a letter of motivation, a CV, names of two referees who have agreed to provide a letter if contacted, and copies of relevant publications and/or preprints by 5 December 2022 to Prof. Catherine Peichel: catherine.peichel@unibe.ch

catherine.peichel@unibe.ch

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UBristol UK BrainEvolution

The role We are seeking an enthusiastic and dedicated postdoc to work on our NERC funded project,'Genetic architecture of brain evolution during ecological divergence'. This NERC project aims to reveal the nature of genetic variation facilitating brain evolution between ecologically divergent cichlid fishes to test the extent, nature and conservation of genetic associations among brain components. We are working on intraspecific variation and interspecific crosses between cichlid fish, to quantify and genetically map variation in brain composition. Alongside this, we will identify key developmental periods where trajectories of brain structure divide, providing a foundation to confirm the causative effects of genes implicated in brain evolution, and to examine how changes in the development of one structure impact another. The position is based at the School of Biological Sciences, University of Bristol, but will also work in collaboration with Dr Emilia Santos and a post-doc in her group at the Department of Zoology, University of Cambridge.

What will you be doing? This role focuses on quantifying and genetically mapping variation in brain composition. The successful applicant will exploit existing samples of hundreds of fish, using DICE-CT and advanced image analyses to quantify brain composition in our sample sets. You will be responsible for managing this process, and subsequently combining it with genomic datasets to perform genome wide association studies (intraspecific variation) and mapping quantitative trait loci (interspecific crosses) to test hypotheses concerning the genetic architecture of brain evolution.

You should apply if The role will suit someone with experience in either handling large phenotypic and/or genomic datasets, or in using quantitative genetics to map variation in complex traits. You will have a good knowledge of modern methods for imaging and analysing brain structure, and strong interest in brain and behavioural evolution. Independence and good organizational skills are essential, and you should also work well within a team and communicate effectively with others. Excellent data management practice is also essential. We encourage under-represented groups to apply. Informal expressions of interest can be directed to Stephen Montgomery, s.montgomery@bristol.ac.uk.

FULL DETAILS: https://www.bristol.ac.uk/-jobs/find/details/?jobId=294991&jobTitle=-Research%20Associate EBaB (Montgomery) Lab: www.shmontgomery.co.uk MorphoEvo (Santos) Lab: https://morphoevolution.com – Dr Stephen Montgomery He/him

NERC/ERC Research Fellow School of Biological Sciences University of Bristol

Email: s.montgomery@bristol.ac.uk Tel: +44 117 455 2591 Twitter: @eohomo www.shmontgomery.co.uk I am a friend and ally of the BAME and LGBQT communities because I believe in equality for everyone.

Stephen Montgomery <s.montgomery@bristol.ac.uk>

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UCalifornia Davis ModelingGeneDriveTrials

Postdoctoral Research Fellow Position Mathematical Modeling for Gene-Drive Trials University of California, Davis

Overview Gene drive technologies offer the promise of managing targeted populations for the benefit of public health, agriculture, and the environment. A gene drive system, when introduced into a wild-type population, will rapidly increase toward fixation by altering normal Mendelian inheritance in favor of the transgene. We are proposing a field test aimed at using gene drive to eliminate human malaria in Africa. The system being developed by our team uses an autonomous Cas9-based gene drive coupled with two anti-malaria parasite genes aimed at eliminating malaria transmission by rendering the mosquito vector refractory to the parasite. This is referred to as a population modification or population replacement strategy which eliminates the parasite but not the mosquito.

The Vector Genetics Laboratory (VGL) at the University of California, Davis is a member of the University of California Malaria Initiative (UCMI). The VGL is tasked with moving gene drive technology from the laboratory to the field by conducting trials involving the release of our transgenic mosquito to evaluate its efficacy and safety. We have assembled a team of mosquito ecologists, parasitologists and population geneticists currently at work describing mosquito and parasite biology at our field sites in the islands of Sï¿½o Tomï¿½ and Prï¿½ncipe (located in the Gulf of Guinea, roughly 300km off the coast of central Africa) and the Comoros Islands (roughly midway between Madagascar and Mozambique in the Indian Ocean). Our team includes resident staff located on-site and a large team of public health educators and administrators focused on community and regulatory engagement.

Gene drives in mosquito vectors of malaria are currently at the forefront in the development of this technology, which has never been deployed in a field situation. Mathematical models aimed at describing how a gene drive mosquito may behave when introduced into a natural mosquito population at a field site are needed to evaluate feasibility, plan trial design and inform regulatory authorities regarding efficacy and safety.

Qualifications We seek applications from candidates with experience in any of the following research areas: mathematics, statistics, population genetics modeling, ecological modeling, computer science, or closely related fields.

Minimum Job Requirements: - An ability to work and communicate effectively in a diverse team environment - Experience with mathematical/statistical modeling- Proficiency in a programming language - A PhD earned no more than five years ago in a related field

Desired Qualifications: - experience with Python and R - publications in refereed journals and a history of successful research in collaborative team environments - experience developing multi-scale models and/or in uncertainty quantification and data fitting - exposure to population genetics or epidemiology modeling- familiarity working with big datasets

Duties/Responsibilities Perform independent research focusing on modeling the spread and persistence of transgenic mosquitoes with gene drive in natural populations. This position will perform mathematical analysis of dynamical systems models and will collaborate with the PI to identify and contribute to the formalization of models for the spread and persistence of gene drive system introduce into natural populations. Position will be responsible for interpretation of mathematical results and will write computer code in the R language for numerical analysis, model fitting, model evaluation/validation, and data visualization.

Position will be responsible for the dissemination of research results to both internal and external audiences, including drafting manuscripts for submission to peer-reviewed journals; giving talks at local, national, or international conferences; drafting internal reports for project collaborators; and providing content for outward-

facing websites for the lab (VGL), and the consortium (UCMI). Position will serve in a supporting role to presentations by other investigators as directed by the supervisor.

Salary: This is a full-time position. Salary is commensurate with qualifications and experience.

How to apply Applicants should submit the following materials: -A cover letter -A curriculum vitae -Contact information for 3 referees Send the above combined into a single PDF to Gregory Lanzaro (gclanzaro@ucdavis.edu) Review of applications will start immediately. This position will be open until filled. The anticipated start date for this position is early 2023. The appointment is for a duration of two years.

The University of California has implemented a SARS-CoV-2 (COVID-19) Vaccination Program covering all employees. To be compliant with the policy, employees must submit proof of vaccination or a

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UCalifornia LosAngeles Conservation

Hello,

The 2023 UCLA La Kretz Center Postdoctoral Fellowshipin California Conservation Science

The UCLA La Kretz Center for California Conservation Science invites applications for its 2023 Postdoctoral Fellowship in California Conservation Science. We seek one or more postdoctoral scholars who conducts innovative biological research to work with the La Kretz Center and partner agencies to achieve outcomes that will direct and lead California conservation efforts.

Candidates may work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. Current and past La Kretz Postdocs have worked on a wide variety of research topics, including urban biodiversity, wildfire management and conservation, urban evolutionary adaptation, the interface of conservation and animal behavior, and many other topics of relevance to California. An important new initiative, the California Conservation Genomics Project (CCGP), is a large, multi-campus initiative led by the La Kretz Center that is delivering genomic resources to California decision-makers to enhance species and habitat management. For a full set of descriptions of past fellows and their work, please visit our website.

We seek Fellows whose research overlaps with one or more UCLA faculty member who is a La Kretz Affiliate and one or more non-UCLA agency/NGO partner in California (see below). The Fellow is expected to work closely with their identified UCLA faculty mentor and agency partner(s). Projects that have identified team members and confirmed their willingness to serve as mentors tend to be favored by our review panel. Projects that could involve cofounding from outside of the La Kretz Center are always encouraged, but this is not a requirement. Our current list of possible agency partners, and relevant contacts individuals includes, but is not limited to:

The Nature Conservancy: Sophie Parker (restoration; urban conservation; invasive species)

LA Natural History Museum: Jann Vendetti (mollusk ecology and evolution; species natural history)

US Geological Survey: Robert Fisher (applied conservation; biodiversity; ecology and evolution)

US Bureau of Land Management: Mike Westphal (applied conservation, climate change)

US Fish and Wildlife Service: Cat Darst (endangered species management)

Natural Communities Coalition: James Sulentich/Danny L. Fry (protection/recovery of sensitive species)

National Park Service: Katy Delaney (amphibian and avian ecology, evolution, and conservation)

National Park Service: Seth Riley (mammalian ecology, evolution, and conservation)

Department of Defense: Robert Lovich (conservation on Dept. of Defense lands)

The La Kretz Fellowship is for two years, subject to review after the first year. The target start date is September 2023, and is flexible. The position offers full benefits, and a research/travel allowance of $7500. Candidates who have recently completed their Ph.D. or will have completed it by August 2023 are encouraged to apply.

To apply, please send applications to lakretz@ioes.ucla.edu as a single PDF file that

includes (i) a brief cover letter, (ii) your CV, (iii) a research and management accomplishments statement (maximum one page), (iv) a project proposal that includes your UCLA La Kretz mentor and agency/NGO partners of interest (maximum three pages, including figures and references), and (v) two of your relevant publications. We also ask that you have (vi) two letters of reference sent, one of which must be from your Ph.D. advisor. Please arrange to have reference letters emailed to the same address with the subject line ???La Kretz Postdoc letter for (your last name)???. The deadline for completed applications is December 15, 2022.

Please e-mail all questions to Brad Shaffer, Director of the La Kretz Center, at brad.shaffer@ucla.edu.

Sincerely,

David Blake

La Kretz Center <lakretz@ioes.ucla.edu>

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UCalifornia SanDiego BacteriophageEvolution

Given the incredibly high genetic diversity of phages, their capacity to evolve, and their flexibility for engineering, phages appear to have endless potential for therapy. However, tapping into this potential is incredibly challenging. Help Justin Meyer's Evolutionary Biology Lab at UC San Diego unlock this potential as a postdoc.

Application: E-mail a CV and brief statement of research interest. jrmeyer@ucsd.edu. Interviews will begin at the end of November.

Start date: Anytime

Qualifications: Training in any of the following areas: ecology, evolution, microbiology, bioinformatics, mathematical biology, and synthetic biology.

Location: UC San Diego in the School of Biological Sciences, but in collaboration with the UCSD's Center for Innovative Phage Applications and Therapeutics (IPATH) and Yale's Center for Phage Biology and Therapy.

Projects: We are interested in several projects that leverage phage genetic variation and evolutionary potential to improve phage therapeutics. Our work is centered at the intersection of microbiology, ecology, and evolution.

The tools we use include synthetic biology, bioinformatics, mathematical modeling, population genetics, genome sequencing, and traditional microbiology.

Lab culture: We are an incredibly diverse hard-working group of people. PI Meyer was a first-generation college student and so has a perspective on the challenges of academia. He has also won awards for mentoring.

https://labs.biology.ucsd.edu/meyer/ "Meyer, Justin" <jrmeyer@ucsd.edu>

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UCalifornia SantaBarbara EnvirEvolution

We are excited to accept invitations for a new "Schmidt Environmental Solutions Postdoctoral Fellowship" to be hosted at University California Santa Barbara. The fellowship is broadly defined and we welcome applications from a range of disciplines whose research has potential to provide near term solutions to pressing environmental challenges. Applications are welcomed from candidates that have research that meets this charge and 1) have recently completed, or will soon complete, their Ph.D, and 2) have identified mentorship support from one or more UCSB faculty members. The position is for two years, subject to review after one year, with a third year extension possible, and can begin anytime between July 1, 2023 and Sept 1, 2023.

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2023 Schmidt Environmental Solutions

Postdoctoral Fellowship at UCSB

Summary: To support and develop the future leaders and innovators in environmental science, this new fellowship program will support an exceptional early stage postdoctoral fellow by granting them freedom, funding, and training to innovate, explore, and apply their science to finding solutions to environmental problems. The fellowship will include $90,000 per year for two years with the opportunity for a one year extension. This amount will support $60,000 base salary plus health benefits with the remainder (approximately $15,000) available to support research, communication, or personal expenses as needed at the discretion of the applicant. Recent PhDs from around the world are eligible to apply so long as: 1) they are within two years of finishing their

PhD at time of application, 2) they are pursuing applied, solutions-based research, and 3) they have identified an appropriate supportive faculty mentor at UC Santa Barbara.

Award Details and Application Process: The Schmidt Family Foundation is funding an Environmental Solutions Research Postdoctoral Fellowship to advance science that has direct application for environmental problem solving. Environmental solutions science is defined broadly and can include natural sciences, social sciences, physical sciences, engineering, law, medicine or any field that has promise to provide near-term solutions for a pressing environmental challenge. Applications will be judged on the following criteria: 1) applicants prior demonstrated excellence in scholarship or environmental practice, 2) the potential value of the proposed research to creating or applying solutions to an environmental problem of immediate concern, 3) support from and fit of the proposal with a department and mentor at UCSB, 4) contribution to diversity in sciences.

Applications for this award should be sent to (schmidt.fellows@gmail.com) in electronic format as a PDF file. They are due by 5 pm November 25, 2022. No late submissions will be accepted. Please put SCHMIDT POSTDOCTORAL AWARD-[APPLICANT LAST NAME] in the subject line of the email.

Eligibility: Applicants must be within 2 years of receiving their PhD at the time of application or expect to have their PhD by Sept 1 2023. The program is open to both US and international students. Applicants from any PhD program, including UCSB, are welcome to apply but UCSB applicants may not be continuing their existing research programs but starting new research programs with new mentorship. The fellowship is expected to begin sometime between July 1 2023 and Sept 1 2023, although an earlier start date may be possible on request.

Requirements: All award recipients will be required to 1) be in primary residence at UCSB for the duration of the award; 2) participate in all Schmidt Fellows Environmental Science Communications programming annually; and 3) submit annual summaries of their research progress and accomplishments, including progress on communicating their science annually.

Please include:

1. A 3-4 page project proposal including the following: A) A brief 1-2 paragraph abstract for the project that includes a solutions statement explicitly stating how the research funded will translate to near-term action for conservation of the natural world; B) A full description of the research project explaining its scientific and en-vironmental merit; C) A description of the applicant's prior research and how it relates to or informs the new work proposed here (this component should be no more than 1 page). References are not included in the 4 page limit.

2. A CV of the applicant (2 pages maximum), including date of PhD receipt (or expected date if not yet awarded).

3. A short letter of support from the proposed mentor at UCSB, explaining the fit of the student with their research program and identifying what resources (physical or human) the advisor will provide to the student to aid them in their proposed research. The letter may be included as part of the application package or may be sent separately to schmidt.fellows@gmail.com and are due with the rest of the application.

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UCollege London ResearchFellow ComputationalGenomics

Research Fellow in computational genomics in University College London - Ref: B02-04010

Research Fellow in computational genomics, at Department of Genetics, Evolution & Environment, UCL Grade: 7 Hours: Full Time Salary: Grade 7 ï¿½38,308-ï¿½46,155 per annum including London Allowance Closing Date: 6 December 2022

Duties and Responsibilities The post holder will work in the group of Professor Ziheng Yang FRS to conduct research in the area of computational genomics. You will become a member of a research team that takes an integrative approach to speciation biology by combining computational science, field ecology, and genomic analysis. The project is a collaboration with Anne Yoder (Duke University, genomics) and Marina Blanco (Duke Lemur Center; behavioural field ecology).

The successful candidate will participate in the development of Bayesian inference methods and implementation of computer software for analysing genomic sequence data from closely related species under the multispecies coalescent model. They may be expected to design and

implement computational algorithms, conduct computer simulation, analyse genome-scale datasets, and write up results for publication in international peer-reviewed journals. For a sample of our recent work in this area, please see Flouri et al. 2020 Mol Biol Evol 37:1211-1223; Jiao & Yang 2021 Syst Biol 70:108-119; Jiao et al. 2021 Nat Sci Rev 8:nwab127; Zhu & Yang 2021 Mol Biol Evol 39:3993-4009.

The post is funded by the NERC for 22 months in the first instance. The post is available immediately.

Key Requirements We seek a research scientist with expertise in computer programming (C/C++), Bayesian inference (MCMC), or computational and speciation genomics.

A PhD (or working towards a PhD) in one of the following areas is essential: computational science (e.g., C programming for HPC), statistical inference (e.g., MCMC), and phylogenomics and population genomics. Individuals with a biology PhD are invited to apply if they can demonstrate strong computational/statistical skills. Ability to work in a multi-disciplinary collaborative environment is essential, as is fluency with Linux. A proven track record of effective research will be required.

Please note: Appointment at Grade 7 is dependent upon having been awarded a PhD; if this is not the case, initial appointment will be at research assistant Grade 6B (Salary ï¿½34,502- ï¿½36,348 per annum, including London Allowance) with payment at Grade 7 being backdated to the date of final submission of the PhD thesis (including corrections).

Further Details A job description and person specification, can be accessed at the bottom of this page. Please ensure you read these carefully before applying for the post.

If you would like to discuss the post please contact Professor Ziheng Yang FRS at z.yang@ucl.ac.uk.

Please follow link below to find out about our commitment to Equality, Diversity and Inclusion, and to apply for the job

https://www.ucl.ac.uk/work-at-ucl/search-ucl-jobs/-details?jobId=2482&jobTitle=Research%20Fellow
Ziheng Yang <z.yang@ucl.ac.uk>

"Yang, Ziheng" <z.yang@ucl.ac.uk>

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UEasternFinland salmonidpopulationgenomics

Postdoctoral Researcher, Molecular and Evolutionary Ecology University of Eastern Finland, Joensuu, Finland

The University of Eastern Finland is inviting applications for a Postdoctoral Researcher, Molecular and Evolutionary Ecology on the Joensuu Campus. The position will start from 1.1.2023 (or as agreed). Please find more information below and submit your application no later than 7.12.2022. (application period has been extended)

Role and salary

As our new Postdoctoral Researcher (Molecular and Evolutionary Ecology) you will be working in the project "Genomic tools for the assessment of trait changes in managed fish populations", funded by the Academy of Finland. The position is located in the Department of Environmental and Biological Sciences in the Faculty of Science and Forestry.

As our new Postdoctoral Researcher, your main responsibilities will include

- developing the genomic methods and bioinformatics for the needs of the project, - writing high-quality scientific publications, - developing new research questions and proposals as part of the research team, and - participating teaching in courses relating to evolutionary ecology, genetics or fish ecology.

The project "Genomic tools for the assessment of trait changes in managed fish populations" develops novel SNP-based tools to map and monitor genetic variation in functionally relevant loci and to understand how human-induced selection shapes the evolution of behaviour and life-histories in salmonid fishes. The candidate loci will be identified through a series of controlled experiments and analyses that aim to reveal associations between phenotypic trait variation, survival and genomic variation. We will use both whole genome sequencing and RAD-sequencing for genome-wide scans, while for the more specific genotyping of large number of fish we will utilize SNP panels, and to lesser extent, microsatellites. The project is shared between the University of Eastern Finland and Natural Resources Institute Finland (LUKE), and the Postdoctoral Researcher is expected to work at UEF but in close collaboration with the

geneticists of LUKE and our international partners.

We are looking for an ambitious candidate with demonstrated skills in genome-wide association analyses and good writing skills. We use brown trout (Salmo trutta) as our model species, and the work supports the conservation and management of this iconic species. We offer access to historical and contemporary sample collections originating both from experiments and natural locations, and support the work by excellent experimental facilities and ability to use large number of fish including established second generation crosses between two distinct life-history types. The host research group (https://uefconnect.uef.fi/en/group/the-research-group-of-aquatic-ecology-and-behavioural-ecology/) is active and productive, and the Postdoctoral Researcher can participate also in other genomic work at the department and LUKE including other animal species supporting strong publishing output and excellent career development.

Experimental work takes place at the Kainuu Fisheries Research (www.kfrs.fi) station in Paltamo, located 270 km north from Joensuu, while most genomic lab work is conducted in Jokioinen, located in Southern Finland close to Turku and Helsinki. The work may require occasional visits to Helsinki, Jokioinen and Paltamo, and supports attendance in international meetings.

The position will be filled from 1.1.2023 to 31.12.2025 (or starting date as agreed). The position will be filled for a fixed term due to it pertaining to a specific project. A probationary period is applied to all new members of the staff.

The salary of the position is determined in accordance with the salary system of the Finnish universities. The salary comprises two components: a job requirement component and a personal performance component. In this position, the job requirement component is 3,044.00 euro /month, based on level 5 of the job requirement chart for teaching and research staff. The personal performance component can be a minimum of 6% and a maximum of 50% of the above-mentioned sum. Depending on the personal performance component, the salary will be approximately 3,534'3,717 euro /month at the beginning of the employment relationship.

Our requirements and expectations

Requirements

- the person to be appointed as Postdoctoral Researcher is expected to hold a doctoral degree from an applicable field. The doctoral degree may not have been completed more than five years - ago at the time of starting of the position (a net period of time, which does not include parental leaves, military service etc.) - good skills in

oral and written English. English is used as the

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UFlorida SharkEvoDevo

Shark EvoDevOmics: Evolution and development of shark skin teeth from genotype to phenotype to prototype.

NSF-Funded postdoctoral position in shark developmental transcriptomics is available in the Laboratory of Gareth Fraser (www.fraser-lab.net) at the Department of Biology, University of Florida. The central themes of our lab are evolutionary developmental biology, and stem and regenerative biology of tooth-like structures in sharks.This NSF-funded project, in collaboration with Professor George Lauder at Harvard University and Dr. Elizabeth Sibert at Woods Hole Oceanographic Institute, seeks to integrate deep time, development and design for the study of shark skin denticles.

We are looking for a motivated and creative scientist to assist in developing the shark as an EvoDevo model system, who will link single cell transcriptomics and bioinformatics with evolutionary developmental biology of shark skin teeth. The primary focus of this position will be generating and handling developmental RNAseq data (including single cell sequencing) to understand the development and cyclical regeneration of shark skin denticles. This project will aim to compare the development of shark skin teeth with the highly regenerative oral teeth.

In addition, training will include using new methods to understand denticle and tooth development, denticle morphogenesis, digital imaging (nanoCT), and in vitro and ex vivo culture of shark dental and skin tissue. Our developmental and RNAseq dataset will be used as the basis for novel engineering design solutions, in collaboration with Harvard University and Woods Hole Oceanographic Institute. This project will offer a range of training opportunities including, hands-on shark embryology and developmental biology techniques, assisting in the development of a ???design a shark??? virtual reality (VR) environment and educational tool, and other outreach opportunities. A major component

of this project is the roll-out of ???accessible sharks???; a Research Experience for Undergraduates (REU) training program, specifically designed for students with disabilities. In addition, we will encourage and nurture the candidate's own creativity and research tangents; so,there will be huge potential here to develop a project that suits the selected candidate???s interests and skill set, related to the focal themes of the project.

The salary is competitive and commensurate with qualifications and experience and includes a full benefits package. The start date is somewhat flexible, and the applicant selected for this position could begin as early as January 2023.

Qualifications

We seek application from candidates with a PhD in the general field of biological sciences and experience with RNAseq (transcriptomic) or genomic analysis tools and bioinformatics. A keen interest in developmental biology/embryology, regenerative and stem cell biology, evodevo, palaeobiology, vertebrate phylogeny, diversity and morphology, is desirable.

Application Instructions

For full consideration, candidates should send (i) a CV; (ii) a statement of research interests and motivation, and (iii) names and email addresses of three referees to Dr. Gareth Fraserg.fraser@ufl.eduby December 31st, 2022.

For informal inquiries or more general information about the position, feel free to contact Dr. Gareth Fraser.

email: g.fraser@ufl.edu

Website: www.fraser-lab.net Phone:(352) 273-4758;

Twitter: @garethjfraser

Application deadline is December 31st, 2022.

All candidates for employment are subject to a pre-employment screening which includes a review of criminal records, reference checks, and verification of education.

The selected candidate will be required to provide an official transcript to the hiring department upon hire. A transcript will not be considered ???official??? if a designation of ???Issued to Student??? is visible. Degrees earned from an educational institution outside of the United States require evaluation by a professional credentialing service provider approved by the National Association of Credential Evaluation Services (NACES), which can be found at http://www.naces.org/ . The University of Florida is an equal opportunity institution dedicated to building a broadly diverse and inclusive faculty and staff. Searches are conducted in accordance with Florida???s Sunshine Law. If an accommodation due to disability is needed in order to apply for this position, please call (352) 392-2477 or the Florida Relay System at (800) 955-8771 (TDD).

We particularly welcome applicants who can contribute to a diverse and inclusive environment.

Closing Date:31st December 2022

Scientific fields:bioinformatics, RNAseq, evolutionary developmental biology, EvoDevOmics, Morphogenesis, stem cells, regeneration

Model systems:Cartilaginous fishes

NSF award information:

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UGuelph GenomicsBioinformatics

Post-Doctoral Fellowship in Bioinformatics and Ecological Genomics, University of Guelph, Canada

Land Acknowledgement The University of Guelph resides on the treaty lands and territory of the Mississaugas of the Credit. We recognize this gathering place where we work and learn is home to many past, present, and future First Nations, Inuit, and Métis peoples. Our acknowledgement of the land is our declaration of our collective responsibility to this place and its peoples' histories, rights, and presence.

General Information (Six PDF Positions Available) This post-doctoral position will be part of the Food from Thought initiative funded through a Canada First Research Excellence Award: https://foodfromthought.ca/. Contributing to this large endeavour to improve food security and sustainability, our goal is to generate bioinformatics strategies for the prediction of biodiversity and ecosystem services from diverse data types, such as -omics data, digital photographs, and/or environmental data. Data analysis has begun to catch up with the pace of data generation, and in these times where understanding and mitigating the effects of climate change and feeding a growing human population is of utmost importance, we need to turn our sights on connecting different sources of data and extracting actionable meaning from them. The successful applicants will utilize

existing and new biological and environmental datasets, along with additional external data, with the goal of predicting ecosystem services, ecosystem health status, and biodiversity metrics using approaches such as statistical learning, machine learning, and network analysis. This may include such important factors as pollination, invasive species resistance, pest control, trophic interactions, water quality, and others. Successful applicants will be part of a cohort of six postdoctoral scholars focused on bioinformatics and ecosystem services, who will work together with a multidisciplinary team of Principal Investigators, students, staff, industry members, and communities.

Specific Information (PDF in Bioinformatics and Ecological Genomics) We are seeking candidates interested in developing bioinformatics tools for taxonomic and functional annotation of multi-kingdom samples. Data are generated from amplicon-based approaches and/or metagenomics/totalRNA. We want to estimate and potentially forecast how local biodiversity is shaped by regional diversity, functional shifts within communities, spatial gradients of biotic and abiotic factors, seasonal climatic constraints, local habitat heterogeneity, and anthropogenic stressors.

Anticipated deliverables from the research include: one or more scientific publication(s), well-commented and documented code that is made publicly available by the end of the project such that that it is user friendly and can respond to future data availability. The successful PDFs will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific conference. The successful applicant will also play a role in co-mentoring undergraduate or graduate students.

The selected candidate will be based in the research group of Dr. Dirk Steinke (Adjunct Professor of Integrative Biology & Bioinformatics) and will also benefit from working closely with a co-advisor with complementary expertise in statistics or computer science as well as other collaborators.

What We Offer

* The opportunity to engage in creative and impactful research relevant for sustainability and food security * The opportunity to collaborate with researchers in a variety of fields, including computer science, statistics, ecology, evolutionary biology, and genomics * Guidance to build valuable skills and to be well prepared for diverse future careers (skills include scientific research; collaboration; communication with diverse stakeholders;

technical skills relating to coding, data analysis, graphics, code review, and publishing of bioinformatics tools) * Access to unique data sets and participation in collaborative partnerships with academics, industry, and governmental agencies * Regular, inclusive, and supportive mentorship from multiple PIs with diverse expertise to support your research, career, and impact/outreach goals * Participation in a collaborative working group of PDFs, workshops, and conferences * Some monetary support for professional development, workshop participation, and conference attendance as well as open-access publishing

Required Qualifications & Attributes

* Must hold a PhD in bioinformatics, evolutionary biology, molecular ecology, genomics, or a related discipline

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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

UGuelph Six BiodiversityBioinformatics

Six (6) Postdoctoral Fellowships in Bioinformatics Strategies for the Prediction of Biodiversity and Ecosystem Services, University of Guelph, Canada

Land Acknowledgement The University of Guelph resides on the treaty lands and territory of the Mississaugas of the Credit. We recognize this gathering place where we work and learn is home to many past, present, and future First Nations, Inuit, and Mï¿½$\frac{1}{2}$tis peoples. Our acknowledgement of the land is our declaration of our collective responsibility to this place and its peoples' histories, rights, and presence.

General Information (Six PDF Positions in Bioinformatics Available) This post-doctoral position will be part of the Food from Thought initiative funded through a Canada First Research Excellence Award: https://foodfromthought.ca/. Contributing to this large endeavour to improve food security and sustainability, our goal is to generate bioinformatics strategies for the prediction of biodiversity and ecosystem services from diverse data types, such as -omics data, digital photographs, and/or environmental data. Data analysis has begun to catch up with the pace of data generation, and in

these times where understanding and mitigating the effects of climate change and feeding a growing human population is of utmost importance, we need to turn our sights on connecting different sources of data and extracting actionable meaning from them. The successful applicants will utilize existing and new biological and environmental datasets, along with additional external data, with the goal of predicting ecosystem services, ecosystem health status, and biodiversity metrics using approaches such as statistical learning, machine learning, and network analysis. This may include such important factors as pollination, invasive species resistance, pest control, trophic interactions, water quality, and others. Successful applicants will be part of a cohort of six postdoctoral scholars focused on bioinformatics and ecosystem services, who will work together with a multidisciplinary team of Principal Investigators, students, staff, industry members, and communities.

What We Offer - The opportunity to engage in creative and impactful research relevant for sustainability and food security - The opportunity to collaborate with researchers in a variety of fields, including computer science, statistics, ecology, evolutionary biology, and genomics - Guidance to build valuable skills and to be well prepared for diverse future careers (skills include scientific research; collaboration; communication with diverse stakeholders; technical skills relating to coding, data analysis, graphics, code review, and publishing of bioinformatics tools) - Access to unique data sets and participation in collaborative partnerships with academics, industry, and governmental agencies - Regular, inclusive, and supportive mentorship from multiple PIs with diverse expertise to support your research, career, and impact/outreach goals - Participation in a collaborative working group of PDFs, workshops, and conferences - Monetary support for professional development, workshop participation, and conference attendance (up to $5000) as well as open-access publishing ($3000)

*****

Postdoctoral Fellowship in Bioinformatics and Environmental Effects Monitoring, Adamowicz Lab, Department of Integrative Biology

Specific Information We are seeking candidates interested in developing bioinformatics tools and predictive models for environmental effects monitoring. This may include using DNA barcoding, metagenomics, and environmental data to predict measures of ecosystem health in freshwaters impacted by industrial effluents or agricultural activities, as contrasted with reference or conservation sites. This work is important for developing efficient methods to leverage high-throughput data to perform biomonitoring and to support decision making.

Successful applicants will also be committed to respectful collaboration and communication, including with industry and academic collaborators as well as community groups. Anticipated deliverables from the research include: one or more scientific publication(s), well-commented code that is made publicly available by the end of the project, and a user manual (and GUI, if suitable) for any bioinformatics tools created such that the predictive models are user friendly and can respond to future data availability. The successful applicant will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in the annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific or industry conference. The successful applicant will also play a role in co-mentoring an undergraduate or graduate student and will contribute to research design.

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UHelsinki PlantDiversity

The research group of Prof. Anna-Liisa Laine (https://lainelab.net/) is seeking a postdoctoral researcher to work in a consortium project aiming to understand how plant biodiversity could be integrated into our food production systems to develop sustainable and climate-smart farming practices. Specifically, we are addressing questions regarding how above-ground plant diversity links with below-ground microbial diversity, and how these jointly affect plant fitness, resistance and resilience to both biotic and abiotic stress using experimental approaches. The consortium joins expertise in agriculture, plant ecology, soil microbial ecology and climate science. It is an exciting interdisciplinary effort addressing cutting edge scientific questions with direct applicability. The position is based at the University of Helsinki, Finland.

The deadline for submitting the application is 2 December 2022.

For more details and to apply, please visit https://jobs.helsinki.fi/job/Helsinki/758364402/ "Laine, Anna-Liisa" <anna-liisa.laine@helsinki.fi>

UInnsbruck HeatwaveAdaptation

Dear EvolDir Community!

JOB OFFER: Postdoc Position: UInns-bruck.HeatwaveAdaptation

A postdoc position is available in the group of Aquatic Evolutionary Ecology at the University of Innsbruck (Research Department for Limnology, Mondsee), Austria.

In this position, you can experimentally examine the evolutionary ecology of the responses of the freshwater snail Lymnaea stagnalis to changing environmental conditions under climate change. The specific goals are to evaluate (1) if natural snail populations are adapted to local temperature conditions that they experience, and (2) if and how much evolutionary potential exists in their heatwave responses. The project is linked to other work in the research group focusing on natural selection on and quantitative genetics of heatwave responses of L. stagnalis.

General information about the research group and the institute can be found at https://www.uibk.ac.at/limno/ The Research Department for Limnology is located on the edge of the Alps in the small town of Mondsee (Upper Austria). The nearest city is Salzburg, which offers history, culture and entertainment at a convenient distance from Mondsee.

We invite highly motivated persons with a strong background in evolutionary ecology and experimental research to apply for this position. A PhD degree is required. Earlier experience with the study system is not necessary.

The project is funded by the Austrian Science Fund (FWF) for 27 months. The salary is based on the personnel cost rates of the FWF

https://www.fwf.ac.at/en/research-funding/personnel-costs Start of the project: spring 2023.

Qualified persons are invited to apply by email. Please attach a single PDF file including a letter of motivation, CV, a research statement (max 2 pages), and names plus contact information of two references to otto.seppaelae@uibk.ac.at. The subject line should read "postdoc 2022". Evaluation of the applications starts December 12, 2022. Only complete applications are considered. Top candidates will be interviewed.

Prof. Otto Seppälä

"Burggraf, Sonja" <Sonja.Burggraf@uibk.ac.at>

UKansas GenomicsFellow Fall2023

Center for Genomics Postdoctoral Fellowship at the University of Kansas

The Center for Genomics at the University of Kansas invites applications for a postdoctoral fellowship in any area of genomics. The fellow will receive a competitive salary, benefits and a research and travel allowance. We encourage fellows to propose an original research project that is related to, but not part of a KU Center for Genomics mentor's normal research program. Center affiliated faculty span several departments and units including Molecular Biosciences, Ecology and Evolutionary Biology, Anthropology, Engineering, Computer Science, Exercise Physiology and the Life Span Institute. Fellow applicants should therefore develop their own research program with guidance from Center for Genomics faculty (https://genomics.ku.edu/genomics-members). We strongly recommend that you contact the faculty member mentor(s) to work out potential details in advance of application materials being submitted.

Fellows will be responsible for: a) Conducting cutting edge research in genomics with Center-affiliated faculty, b) presenting research at conferences and publishing findings, c) applying for additional external funding (NIH NRSA, NSF Postdoc, private foundations), d) presenting research during our postdoctoral seminar series, e) writing an annual progress report, and f) helping to plan center activities.

The successful candidate should have experience in genomics research, but further growth in genomics-related skills should be part of the proposed project. Applicants will be assessed based on preparation, the proposed project, the candidate's ability to span disciplines, and the likelihood of improving the genomics community at KU (including DEIB and outreach efforts, https://odst.ku.edu/).

For more information, visit: https://genomics.ku.edu/ku-center-genomics-postdoctoral-fellowship. To ap-

ply, go to: https://employment.ku.edu/postdoctoral-researcher-center-genomics/23657br .Applications include the online application materials, a cover letter (see instructions ' this should include some background, the proposed project, efforts in diversity, equity and inclusion, among other things), a CV and contact information for 3 referees. Applications are due February 1st, 2023 with a flexible start date of August 2023. Direct inquiries to Rob Unckless at KUCGPostdoc@ku.edu.

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities. Retaliation is also prohibited by university policy. The following persons have been designated to handle inquiries regarding the nondiscrimination policies and are the Title IX coordinators for their respective campuses: Director of the Office of Civil Rights and Title IX, civilrights@ku.edu, Room 1082, Dole Human Development Center, 1000 Sunnyside Avenue, Lawrence, KS 66045, 785-864-6414, 711 TTY (for the Lawrence, Edwards, Parsons, Yoder, and Topeka campuses); Director, Equal Opportunity Office, Mail Stop 7004, 4330 Shawnee Mission Parkway, Fairway, KS 66205, 913-588-8011, 711 TTY (for the Wichita, Salina, and Kansas City, Kansas medical center campuses).

"Unckless, Robert L" <unckless@ku.edu>

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ULausanne ConservationBiology

The Institute of earth surface dynamics of University of Lausanne opens a position of

Postdoctoral Researcher in Global Change and Conservation Biology

We are looking for a highly motivated postdoctoral researcher in environmental sciences, with particular interest in ecology, biodiversity, conservation, and global change biology.

Starting date: 01.04.2023

Position duration: 3 years

Level of activity: 100%

Work location: Lausanne, Switzerland

Job description:

Worldwide, glaciers are retreating at historically unprecedented rates. Glacier retreat has dramatic impacts on mountain environments, influencing water availability and human well-being, modifying the biogeochemical cycles in downstream ecosystems, and determining the development of new ecosystems, with fast changes of biotic communities and overall biodiversity patterns. Nonetheless, forecasting the impact of glacier retreat on biodiversity and developing solutions to mitigate biodiversity loss are big problems that remain unsolved.

A postdoctoral research position is open between the Biodiversity Change group of Gianalberto Losapio and the Spatial Ecology group of Antoine Guisan at University of Lausanne. This position is part of a European project (Biodiversa PrioritIce) addressing conservation and management of biodiversity in glacial ecosystems. The overarching goal of this project is to identify trends, threats and processes acting on the biodiversity associated to glacial ecosystems in European mountains. In particular, the candidate will identify evidence-based conservation priorities and actions for managing glacial ecosystems, devising strategies to anticipate and mitigate the consequences of glacier extinction under climate change scenarios.

Salary and benefits are internationally highly competitive. The candidate will be supervised by Gianalberto Losapio and Antoine Guisan and will collaborate and interact with a broader international network of researchers and stakeholders across Europe.

Candidate profile:

We are looking for a highly motivated, enthusiastic, and independent person with a passion for science and nature. Talented scientists with a PhD in environmental sciences, ecology, conservation, and global change biology or related fields are particularly encouraged to apply. Applicants are expected to have excellent quantitative skills,advanced experience in ecological modelling, computer programming, statistics and simulations, and a good knowledge of biogeography and conservation. The project will be based on existing data and environmental maps, so no fieldwork or labwork is needed.A high level of written and spoken English proficiency is required. Knowledge of a second European language is a plus but not necessary.

You will develop your research project while working in a multicultural, diverse, collaborative, and dynamic environment. University of Lausanne provides great opportunities for academic and professional training as well as acquisition of transversal skills. We offer stimuli for developing critical thinking and to become an independent scientist. You will receive individualized attention and will have many opportunities to develop close collegial relationships with different scientists.

Application documents:

Please send your application including: (1) a motivation letter describing your reasons for pursuing a postdoc with us, your research interests, your preparation for doing research in environmental sciences, why we would be a good fit for your career plans and other aspects of your background; (2) your curriculum vitae with education, activities, awards, services, public outreach, and publication list with explanation of study relevance and your contribution; (3) up to three abstracts of any meaningful research project you've lead (e.g. PhD thesis, papers, Â) pasted in the same document; (4) copy of graduate degree certificates; (5) names and contact details of three referees.

Apply at www.shorturl.at/aEK09 Applications received via email won't be considered.

First decision will be notified by January 5th. Interviews will take place between 9 and 13 January 2023.

For informal inquiries and further information, do not hesitate to contact us atGianalberto.Losapio@unil.chandAntoine.Guisan@unil.ch

Application deadline:

20 December 2022

Gianalberto Losapio <gianalberto.losapio@unil.ch>

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UMainz EvolutionaryGenomics

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a

Postdoc position for evolutionary genomics (3+3)

(Salary level TV-L E13, 100%)

in the department of Evolutionary Plant Sciences, headed by Prof Shuqing Xu.

The successful candidate may start on the 1st of February 2023, or as early as possible. The salary will initially be provided for three years, with the possibility of extension for another three years. Supported by other group members, the candidate will work on the evolution of gene functions and regulations at cellular level using use the state-of-the-art genomic tools. During the project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills. The candidate will have the opportunity to apply for additional third-party funding to establish his/her own subgroup.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in biology, evolutionary genetics, bioinformatics or computer science. The candidate is expected to design, conduct and organize the projects independently. A training background in bioinformatics, evolutionary genetics or single-cell sequencing is preferred. Applicants must demonstrate experience in statistics and genomics. Experience with molecular biology, epigenetics and computational modelling are a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected. Good knowledge of German is a plus.

Excellent infrastructure and work conditions are available at the University of Mainz. The working language of the lab is English. For further information, please contact shuqing.xu@uni-mainz.de

The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

Applications must be in English and include:

(1) a motivation letter stating the research interests with reference to the stated requirements in no more than two pages, (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience, (3) an abstract of the PhD thesis, and (4) contact details of at least two referees. Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-mainz.de) with the subject line "Evolutionary Genomics Postdoc Position ' Your Name". The application review will commence on 15th December 2022. The position will remain open until filled.

Prof. Dr. Shuqing Xu Institute of Organismic and Molecular Evolution (IomE) Johannes Gutenberg University Mainz Biozentrum I Hanns-Dieter-Hï¿½½sch-Weg 15 D-55128 Mainz Germany Phone: +49 6131 39 26907 E-mail: shuqing.xu@uni-mainz.de

Shuqing Xu <shuqing.xu@uni-mainz.de>

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

UMiami EvolutionBiogeochemicalCycling

UMiami.Bioticinteractions_BiogeochemicalCycling

We are looking for a postdoctoral scholar interested in joining our research group at University of Miami (amyzanne.org). The successful candidate will join a new collaborative project with University of Campinas examining how the ecology and evolution of plant traits, local climates, microbial and termite communities, and seasons affect the carbon gas fluxes along a seasonally flooded grassland gradient. Specifically, the postdoctoral associate will set up, run and analyze field projects in Brazil to understand how microbial and termite communities affect carbon cycling at different scales. The postdoctoral associate should have a background in bioinformatics, quantitative analyses, biogeochemistry and/or plant-microbe or plant-termite interactions, as well as interest or experience in remote field work, ideally in Brazil.Applicants should apply through the University of Miami website (https://umiami.wd1.myworkdayjobs.com/en-US/-UMCareerStaff/details/Post-Doctoral-Associate—College-of-A-S—Biology_R100062856). Please submit your CV, including contact information for 3 references,

a short statement of previous research, and a cover letter explaining your interest in this position and how it will support you toward your career goals. The position will be posted until filled. I am happy to answer any further questions (Amy Zanne: aezanne@gmail.com) you might have.

Amy Zanne <aezanne@gmail.com>

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UMinnesota PlantGenetics

Classification & Title:9546, postdoctoral associate Working Title/Specialty:President's Postdoctoral Fellow FLSA Status:Exempt, 100% Type:Academic with the possibility of Tenure Track Faculty after two years upon successful progression determined by Department Head in collaboration with CFANS Dean College/Admin Unit:College of Food, Agricultural and Natural Resource Sciences (CFANS) Campus Location:St. Paul Campus Job Opening ID:NA – applicants will submit application through University of California President's Postdoctoral Fellowship Programwebsite

College Overview We acknowledge that the University of Minnesota Twin Cities is built within the traditional homelands of the Dakota people. It is important to acknowledge the peoples on whose land we live, learn, and work as we seek to improve and strengthen our relations with our tribal nations.

The College of Food, Agricultural and Natural Resource Sciences (CFANS) is composed of 13 academic departments, 10 research and outreach centers across Minnesota, plus the Minnesota Landscape Arboretum, the Bell Museum, and dozens of interdisciplinary centers that span the college, the university, and the globe.

CFANS offers thirteen undergraduate majors and thirteen graduate majors, three pre-major/pre-professional programs and 23 minors for undergraduate students. Undergraduate enrollment in the college is about 2000 students. CFANS students are well-prepared for a diverse, multicultural workforce through the college's emphasis on experiential, interdisciplinary, and intercultural learning; internships and global perspectives.

CFANS Commitment to the President's Postdoctoral Fellowship Program (PPFP) At CFANS, we aim to inspire minds, nourish people, and enhance the natural environment, and we believe that's only possible if ev-

eryone feels seen, heard and respected. Our College embraces equity and diversity and prioritizes purpose-driven scientific discovery in order for us to build a better tomorrow, together. We align with the University of Minnesota (UMN) in providing 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.

This is a two-year position starting with an initial, renewable 12-month appointment with the possibility of a tenure track position which could require a seminar or job talk the spring of your second year. The University of Minnesota respects faculty governance and has incorporated such into the PPFP review process for a potential offer of a faculty tenure track position. The Department Head and faculty will conduct an annual review of your progress in February of the first year. In February of the second year, the Department Head, in conjunction with the PPFP supervisor and CFANS Dean, will complete a progress review. If the review concludes that the Presidential Postdoctoral Fellow is successful in the responsibilities described for the position, they will be offered the opportunity to present a research and teaching seminar for review and evaluation by the department faculty, and upon agreement a tenure-track faculty position with the University of Minnesota.

Department Overview The Department of Agronomy and Plant Genetics has 24 faculty members with expertise in breeding, genetics/genomics, biotechnology, agronomy/agroecology, weed science and crop physiology. Faculty conduct basic and applied research that is translated to crop improvement and improved agronomic practices for upper Midwestern agriculture. Faculty in the department are members of the Applied Plant Science, and Plant and Microbial Biology graduate programs. The faculty teach in the Plant Science, and Food Systems and Sustainable Agriculture interdepartmental undergraduate programs.

Position Overview The Department of Agronomy and Plant Genetics at the University of Minnesota is seeking an agronomist, weed scientist, biochemist, biotechnologist, physiologist, geneticist/genomicist, breeder, or bioinformatician within the realm of climate smart agriculture.

The University seeks applicants whose research, teaching, and service will contribute to diversity, inclusion, and equal opportunity in higher education and at the University of Minnesota. Our goal is to recruit diverse applicants who may be considered for tenure track posi-

tions at the University of Minnesota. The President's Postdoctoral Fellowship Program is interested in scholars with the potential to bring to their research and teaching the perspective that comes from their educational background or understanding of the experiences of groups historically underrepresented in higher education.Post-Doctoral Associates conduct research and/or service that provides further development of career skills or allows them opportunities to learn new research techniques. They are

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UMissouri Columbia EvolutionaryBiology

Preparing Future Faculty - Faculty Diversity (PFFFD) program at University of Missouri, Columbia Full job ad with links for more information is available at https://biology.missouri.edu/news/postdoctoral-fellowship-organism-environment-interactions-0 We seek colleagues who employ innovative and integrative approaches to investigate fundamental questions centering on the interactions of organisms with their environment. Candidates whose research addresses those dynamics in nature and can synergize with the Division's research strengths in Evolutionary Ecology, Genetics, Plant Biology, Neurobiology & Behavior, and Cell Biology are strongly encouraged to apply.

The Preparing Future Faculty - Faculty Diversity (PFFFD) program is a unique opportunity for emerging scholars to become part of a growing department. The primary goal of the PFFFD program is to recruit exceptional postdoctoral scholars to transition to tenure-track faculty positions and increase representation of historically marginalized groups in DBS and MU. The fellowship period is for up to three years, during which time scholars will be provided with mentorship, research funds, and the opportunity to participate in faculty affairs. Our expectation is for the scholar to transition to a faculty position in our department. For this transition, in the final year of the fellowship the candidate will be asked to submit materials and will be formally interviewed by the faculty. Interested candidates should

contact potential mentors to discuss their interests and potential collaborations.

The Division of Biological Sciences is committed to increasing the representation of historically excluded groups across all levels of our community. We recognize the need for fostering a diverse and inclusive community, to support our goals of becoming excellent educators and researchers. The successful candidate is expected to contribute to these core values and to provide effective mentorship to students and trainees from underrepresented groups.

Application

Minimum qualifications include a Ph.D. in biology or related field at the time of appointment.

Applications will be evaluated with an initial blind review process that focuses on the three required statements, independent of CV and cover letter, beginning with the inclusion and equity statement. Applicants should include a cover letter describing their interest in the position, and the following documents as individual MS Word (or similar) or PDF files for review:

a statement outlining the applicant's previous contributions to inclusion and equity, and/or how they plan to contribute in the future to inclusion and equity efforts at MU. As part of this statement, applicants should include: a section outlining their mentorship experience; how they will provide an equitable and inclusive environment for their research lab members; and how their personal and professional experience shapes their contributions to inclusion and equity.

a statement that outlines relevant teaching interests, philosophy, experience, and approaches. If available, we welcome evidence of previous teaching effectiveness.

a research statement including a summary of past work and a description of the applicant's future research directions. PDFs of representative papers

cover letter and curriculum vitae

contact information for 3 letters of reference.

Review of applications will begin on January 9, 2023 and continue until the position is filled. Zoom interviews will begin in late January.

Applicants wishing to apply should do so by emailing these materials to mubioscifaculty-search@umsystem.edu.

Questions may be addressed to the Division Director, Dr. David Schulz (schulzd@missouri.edu).

Benefit Eligibility

As a benefit eligible employee at the university, you will be eligible to participate in a broad array of benefit programs that the University makes available. Health, dental, vision, life and disability benefits become effective on your first day of full-time employment, provided you complete enrollment within the first thirty-one (31) calendar days of benefit eligible employment. For specific information regarding University benefits, please visit the benefits website at www.umsystem.edu/benefits or contact the UM System Office of Human Resources at 573-882-2146.

Diversity Commitment

The University of Missouri is fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence.

Equal Employment Opportunity

Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and

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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

UNeuchatel Two ComparativeEpiGenomics

Two 2-year 100% Postdoc positions in comparative speciation (epi)genomics

Unravel the (epi-) genomic architecture of chromosomal fusion and fission in holocentric species

Holocentric chromosomes that lack centromeres have repeatedly evolved in both animals and plants. Their unique chromosomal architecture may promote large-scale rearrangements through chromosomal fusion and fission and eventually promote speciation (Lucek et al. 2022 Trends Ecol Evol). However, often only some species groups undergo massive chromosomal diversification while others do not. This project aims to resolve the (epi-) genomic architecture of chromosomal fusion and fission across the two best studied holocentric groups with one postdoc position primarily being dedicated to Lepidoptera and the other to sedges of the

genus Carex. Research on Carex is in close collaboration with Prof. Marcial Escudero (University of Seville, Spain) and Dr. Andrï¿½½ Marques (Max Planck Institute for Plant Breeding Research, Cologne, Germany). For both Lepidoptera and Carex you will employ comparative genomic methods using existing chromosome-scale genome assemblies and generate additional genomes. You will annotate genomes and generate and analyse the epigenomic landscape. The goal is also to establish a macroevolutionary perspective of chromosomal rearrangements for speciation. The prospective candidates will join the group of Kay Lucek that is funded through a Swiss National Science Foundation (SNSF) Eccellenza fellowship and be part of the Biodiversity Genomics laboratory (www.biodiversity-genomics.ch) at the University of Neuchï¿½½tel in Switzerland.

Your profile: Enthusiastic, self-driven, responsible, collaborative and highly-motivated; excellent communication and interpersonal skills in verbal and written English; a strong work ethic. The ideal candidate brings strong conceptual thinking together with profound genomic and/or bioinformatic skills. Applicants should have a PhD degree in evolutionary biology, (epi-)genomics, bioinformatics, or close related fields.

We offer you: Two cutting-edge, two-year positions fully funded by the SNSF and the Fondation Pierre Mercier pour la science, based at the Institute of Biology, University of Neuchï¿½½tel, Switzerland. The Institute offers a vibrant and interdisciplinary research environment, combining a broad spectrum of research activities in life sciences, including evolutionary genetics, conservation, ecology and microbial biology. Salary and social benefits are provided according to University of Neuchï¿½½tel rules. Neuchï¿½½tel is an enchanting historic Swiss city, well connected and offering a broad range of cultural and recreational activities.

Starting date: The anticipated starting date is the 1st of March or April 2023, with some flexibility.

Application: Motivated applicants should submit (1) a one-page letter describing yourself, your career goals, and your preferred project outlining your match, (2) a CV describing your education, publications, and relevant work experience, (3) copies of masters/diploma and if already available PhD transcripts, as well as (4) contact information of two references. The application deadline is 5th of January 2023. Please, send all the information in a single (!) PDF to Prof. Dr. Kay Lucek (kay.lucek@unine.ch). If you have any further questions, please contact me using the same email address.

LUCEK Kay <kay.lucek@unine.ch>

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UNorthCarolina Charlotte BioinformaticsGenomics

Dear EvolDir community,

PREAMBLE:

The Phyloinformatics Lab (https://-phyloinformatics.com) at UNC Charlotte (Charlotte, NC, U.S.A.) is looking for a Postdoctoral Fellow in Bioinformatics and Genomics to start potentially in the first semester of 2023 (start date is negotiable). You can read more details and apply for this position at https://jobs.charlotte.edu/postings/46283 . BASIC DETAILS:

Working Title: Postdoctoral Fellow: Bioinformatics and Genomics College: College of Computing and Informatics (CCI) Department: Department of Bioinformatics and Genomics (BiG) Work Location: CCI, BiG, CIPHER center (https://cipher.charlotte.edu/), in-person Vacancy Open To: All Candidates Employment Type: Temporary - Part-time Work Schedule: Monday to Friday, 8 hours per day, 40 hours per week Minimum Experience/Education: The Postdoctoral appointee must have been awarded a Ph.D. or equivalent doctorate degree (e.g., Sc.D., M.D.) in the past eight years How to apply: Candidates can apply on NinerTalent after November 7, 2023 (https://jobs.charlotte.edu/postings/46283)

WORK/RESPONSIBILITIES:

The employee will report to Dr. Denis Jacob Machado (Assistant Professor in Bioinformatics) and will be a senior member of the Phyloinformatics Lab, supporting projects through original research, collaboration with other team members, and co-mentoring students. The employee's principal research responsibilities will be training and research.

The Phyloinformatics Lab's research can be divided into four components: 1) We are facilitating resource-efficient molecular analyses and making data from museum biorepositories more readily available to biomedical research. 2) We are improving genomic resources of non-model organisms with a focus on animals of particular medical or environmental interest. 3) We are developing phylogenetics solutions, especially if they can help improve our understanding of zoonosis. 4) We are integrating "omics" technologies (e.g., genomics, tran-

scriptomics, metabolomics, and proteomics) to study complex host-pathogen systems in the context of One Health.

The successful applicant will conduct research that aligns with at least one of the abovementioned components. Additional comparative genomics and phylogenetics projects are encouraged, especially when public data or collaborations are available.

SKILLS:

The candidate must have basic computational skills, including Bash, Unix, Python, and R training. Moreover, the candidate must have a background in phylogenetics, molecular biology, evolution, and statistics. Furthermore, the candidate must show at least an introductory understanding of genomics, transcriptomics, and microscopy. Finally, training in virology, epidemiology, or zoology is not required but is highly desirable. Preference will be given to candidates who better fit the preferred skills list.

ADDITIONAL INFORMATION AND APPLICATIONS:

Candidates can read additional details and apply on NinerTalent, at https://jobs.charlotte.edu/postings/46283 . Best regards,

Denis *Jacob Machado*, Ph.D. (ele, él, he/him) *Assistant Professor* Dept. of Bioinformatics and Genomics | UNC Charlotte phyloinformatics.com

dmachado@uncc.edu

"dmachado@uncc.edu" <dmachado@uncc.edu>

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

UTennessee Knoxville ModelingCulturalEvol

Applications are currently being solicited for a postdoctoral research associate in the area of Modeling Social and Cultural Evolution at the University of Tennessee at Knoxville. The successful candidate will join a multidisciplinary community of researchers in social, cultural, and biological evolution and will work directly with Professor Sergey Gavrilets (www.http:/-/volweb2.utk.edu/~gavrila/) on a project focusing on understanding the dynamical emergence of new cultural authorities across social media. The project, which is funded by the John Templeton Foundation, is a collaboration with Professor Neil Johnson's group (https:/-/donlab.columbian.gwu.edu/) at George Washington University.

The lab is affiliated with the Department of Ecology and Evolutionary Biology, the Department of Mathematics, the Center for the Dynamics of Social Complexity (DySoC), and the National Institute for Mathematical and Biological Synthesis (NIMBioS). The candidate will be welcome to participate in any/all of these communities.

The position is a 12-month 100% research appointment with the potential for renewal for one or two years if things work out well. The preferred start date: early 2023.

Requirements: - A PhD in a relevant field (applied mathematics, economics, cultural evolution, theoretical biology, etc). - Experience and publication record in mathematical/computational modeling of social or biological systems. - Fluency in mathematical programming. - The ability to write clearly and scientifically (e.g. to produce drafts of papers for publication in scientific journals). - Ability to work/communicate with a multidisciplinary team.

To apply, send an email to Sergey Gavrilets (gavrila@utk.edu) containing a cover letter explaining your fit and interest in the position, a CV, and the contact information for three references. Applications will be reviewed as they arrive. In addition, an employment application must be submitted at: (https://ut.taleo.net/careersection/ut_knoxville/-jobsearch.ftl?lang=en). Presubmission inquiries are welcome.

The University of Tennessee at Knoxville is the flagship university in the Tennessee state higher education system. Knoxville is a diverse medium-sized city in the Tennessee Valley with a relatively low cost of living. The area is rich in natural beauty (mountains, lakes, rivers).

"Gavrilets, Sergey" <gavrila@utk.edu>

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UVienna VirusGenomics

We are searching for a postdoctoral researcher to work on a FWF-funded project (1000 ideas programme) at the Department of Evolutionary Anthropology at University of Vienna. The project will be an investigation of potential preservation of RNA viruses in a range of great ape specimens. Funding is available for 2 years. Candidates with experience in ancient DNA, or virus genomics, or somewhat related fields are preferred.

There will be strong support on all aspects of the project (lab procedures, data analysis) by experts in the Department (Profs. Kuhlwilm, Pinhasi, Schï¿½$\frac{1}{2}$nemann, and their teams). The starting date is 1st January 2023 (flexible). Salaries follow the collective agreements of the university. The University of Vienna, the Department of Anthropology, and the group leader support equality and diversity.

Applicants should send a brief motivation statement and CV until 20th November to martin.kuhlwilm@unvie.ac.at More information: https://admixture.univie.ac.at/?page_idB Best, Martin

Martin Kuhlwilm <martin.kuhlwilm@unvie.ac.at>

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UWinnipeg EvolutionaryGenetics

A postdoctoral position is available in Dr. Alberto Civetta's research group at the University of Winnipeg, Winnipeg, Canada. Our laboratory is interested in the genetic basis of reproductive incompatibilities. We are currently engaged in testing the role of a group of candidate genes in reproductive isolation, identifying common genetic basis to sperm competition and conspecific sperm precedence and identifying selection at the molecular level.

Ideally, the candidate should have expertise in Drosophila biology and either training in molecular biology and/or genomics and bioinformatics.

Working on this project will require independence, initiative, and the ability to devise new approaches. There will be opportunities to interact with graduate students and particularly to get direct experience in helping supervise undergraduate students' research projects. The position is available for one year, but renewable for at least an additional year depending on performance and progress.

The start date is flexible but should ideally start in July 2023.

The University of Winnipeg, (http://www.uwinnipeg.ca/) is located in downtown Winnipeg. Winnipeg is home to about 700,000 people from around the world with a rich array of cultural, educational and recreational opportunities. Reasonable housing costs make Winnipeg an affordable place to live and work.

Informal enquiries are welcomed. Applicants should email a cover letter and CV (including contact details for two referees) to a.civetta@uwinnipeg.ca

Applications will be accepted until December 15, 2022, or until a suitable candidate is identified.

Alberto Civetta <a.civetta@uwinnipeg.ca>

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UZurich AdaptiveLandscapes

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're 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 December 1, 2022 or until the position has been filled. The position is available from early 2023.

Thanks a lot!

Best,

Annette

IEU wagnerjobs <jobs.wagner@ieu.uzh.ch>

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VrijeU Brussel PDF PhD EvolutionaryGenomics sexChromosomes

PhD and Postdoc positions available at Vrije Universiteit Brussel in evolution and genomics of sex chromosomes

We are seeking a fully funded PhD and a postdoc-toral researcher, funded by ERC starting grant, to join the Evolutionary Genomics of Sex lab (https://www.wmalab.com) in the Biology Department (https://we.vub.ac.be/en/biology-department) at the Vrije Universiteit Brussel (Brussels, Belgium).

We are interested in how sex chromosomes evolve, and why the evolutionary trajectories of sex chromosomes differ dramatically across eukaryotes. For example, sex determination is very labile in reptiles, amphibians and fishes but highly stable in mammals and most birds. We study the drivers of sex chromosome recombination suppression, the genomic signature, and the evolution and genomic basis of sex determination and endosymbiants manipulation of host reproduction. We integrate comparative and functional genomics, transcriptomics, molecular genetics, artificial selection, and fieldwork sampling to reveal the genomic signature and genetic architecture of sex.

Fully funded PhD position

A fully funded PhD position in the evolution and genetics of frog sex chromosomes and sex determination is available. The prospective student can choose one of two research themes to pursue. Theme 1. Evolution and genetic mechanism of sexual dimorphism in recombination. Theme 2. The genetic mechanism of sex determination.

Applicants can come from a variety of backgrounds, but we are particularly interested in those with a strong interest in genetics & genomics, evolution, and molecular biology. This position is fully funded for 4 years. The expected start date is March 2023 but is negotiable.

Applications should be emailed to PI Wen-Juan Ma (wen-juan.ma@vub.be) include the following attachments: 1) a cover letter expressing your interest, your qualifications for the position, and your future career goals, 2) your CV, 3) a copy of your master degree diploma and master transcripts (or you could provide your master diploma before the PhD starting time in 03.2023), and 4) names and contact information of 2-3 professional references, who will be contacted after shortlisting candidates.

Please click on this following link for specific information on applying for this position: http://www.wmalab.com/resources/MaLab_VUB_PhD_Recruitment_Ad.pdf Postdoctoral researcher position

The candidate for this hire will work on a project that aims to understand the evolution and genomic signature of (undifferentiated and differentiated) sex chromosomes between female (i.e. ZW/ZZ) and male heterogametic (i.e. XX/XY) systems in various frog species, using comparative and functional genomics, population ge-

netics, molecular evolution, cytogenetics and fieldwork sampling approaches.

The successful candidate will have a Ph.D. and experience in some of the following related fields: genomics, genetics, evolution, molecular biology, and bioinformatics. Experience with high-throughput sequencing, genomic data analysis and a good level of programming are desired.

This position has an initial 2-year contract and can be renewed for up to 5 years. Help will be provided in applying for independent postdoc funding. The expected start date is March 2023 but is negotiable.

Applications should be emailed to PI Wen-Juan Ma (wen-juan.ma@vub.be) and should include: (1) a CV; (2) a cover letter - letter of application that summarizes your qualifications, interest in the position and future career goals; (3) contact information for three references.They will be contacted after shortlisting candidates.

Please click on the following link for specific information: http://www.wmalab.com/resources/- MaLab_VUB_Postdoc_Recruitment_Ad.pdf Applications deadline (both positions):

05 January 2023

We strive to create a diverse, inclusive and highly interactive and collaborative lab culture. We welcome and encourage students and researchers from diverse cultural, racial and economic backgrounds to join our brand new lab. Your values and options matter to us and will help us shape our inclusive, constructive and collaborative lab environment. If this is something resonant to you, please consider applying for open positions below and help spread the word.

Informal enquiries can be made to Wen-Juan Ma (wen-juan.ma@vub.be) about the two positions, the lab, student life, etc.

Dr. Wen-Juan Ma

Assistant Professor (01.2023) Vrije Universiteit Brussel Pleinlaan 2 1050 Brussels Belgium

Lab webpage: http://www.wmalab.com Twitter: @WenJuanMa84

Wen-Juan Ma <Wen-Juan.Ma@vub.be>

WorkshopsCourses

Barcelona GeometricMorphometrics May8-12

Dear colleagues,

we are still accepting applications of interest for participating in thecourse in Geometric Morphometrics using Rby the geomorph R-package development team, to be held in Barcelona (Spain), on May 8-12, 2023.

Thedeadline for applicationsis November 30, 2022.

The goal oftheworkshop is to provide participants with both working knowledge of the theory of geometric morphometrics, as well as practical training in the application of these methods.

The course will occur in theFaculty of Biology of the University of Barcelonaand is organized by theDepartment of Evolutionary Biology, Ecology and Environmental Scienceand theInstitute of Research in Biodiversity.

This is considered a post-graduate course, approved by the Faculty of Biology of the UB, and it corresponds to 3 ECTS units, for students interested in validating and transferring credits for it. It is, however, open as an international workshop to participants at any stage of their academic career.

The cost of the course will be of 350 euros per participant.

To apply for participating in the course please feel in the application formhere

Up to 25 participants will be accepted on the basis of their academic career stage (priority given to PhD students and early-career researchers) and relevance of the course for their research.

Admitted participants will be informed until December 15, 2022.

On behalf of the geomorph team and the local organizing committee

Antigoni

Antigoni Kaliontzopoulou

Departament de Biologia Evolutiva, Ecologia i Ciï¿½ncies Ambientals (BEECA)

Facultat de Biologia, Universitat de Barcelona

IRBio, Institut de Recerca de la Biodiversitat

https://sites.google.com/view/akaliontzopoulou/-home   https://sites.google.com/view/phenevol/   https://webgrec.ub.edu/webpages/000011/-cat/akaliontzopoulou.ub.edu.html   http://-www.ub.edu/irbio/home   Antigoni Kaliontzopoulou <akaliontzopoulou@ub.edu>

ColumbiaU NewYork RadCamp2023 May12-13-Jun11-12

The RADcamp organizers are hosting an interactive two-part RADseq wet lab and bioinformatic processing workshop designed to guide participants through a full RADseq pilot study. It will take place over two days each during two weeks at Columbia University (May 12-13 and June 11-12). In part 1 (in-person attendance required), participants will each use 25-35 of their own project's DNA extractions to be used in an interactive 2-day wet-lab workshop where we will prepare dual digest RAD-seq libraries (3RAD). At the end of the first meeting, libraries will be sent for paired-end Illumina sequencing. The sequencing cost will be completely subsidized (FREE!). Part 2 of the workshop (optionally hybrid/remote participation) takes place one month later and will focus on reproducible bioinformatic assembly and analysis of participants' pilot RAD-seq data sets using ipyrad.

This workshop is intended as a bootcamp for early career scientists to learn best practices that they can then help to disseminate to the broader community. This was made possible through generous funding from the American Genetic Association, Columbia University, and the Maine Center for Genetics in the Environment at University of Maine.

We encourage all scientists to submit their application. We especially welcome women, under-represented minorities, early stage students, or people with the potential to pass on skills to large groups. Partial funding support (need-based) for travel and accommodations in NYC is available, which can be applied for in the workshop application. A registration fee ($30 per part) will be due upon acceptance.

The Full Call for Participation can be found here: https://radcamp.github.io/NYC2023/ The application for participation can be found here: https://forms.gle/-radiFY46vLV8Jd1Z8 .Application review will begin on December 15 and continue until all spots are filled.

Please contact us at radcamp.nyc@gmail.com with any questions.

Sandra Hoffberg, Code Ocean Isaac Overcast, The University of Maine Deren Eaton, Columbia University Natalia Bayona Vasquez, Oxford College of Emory University

Natalia Bayona <njbayonav@gmail.com>

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Finland IntegratingSpeciationResearch Mar30

Dear colleagues,

The ESEB-funded Special Topic Network "Integration Of Speciation research" (https://speciation-network.pages.ist.ac.at/) is organizing a workshop to be held next year (30th March to 3rd April 2023) in Tvï¿½rminne field station, Finland (https://-/www2.helsinki.fi/en/research-stations/tvarminne-zoological-station).

This workshop will gather researchers (~40 people) to consider how we can better integrate speciation research.

The call is now open for applications and we hope to gather a diverse group of participants representing various study organisms, methods used, career stages and countries. We encourage applications from all career stages including early career researchers, fellows, postdocs and PhD students.

Please apply here before 9th of December 2022: https://docs.google.com/forms/d/e/-1FAIpQLSeNv2zivBPfGPoTioRu6Oxh_YJUHbAm-Ho1N-QpdHEChaGmIA/viewform?vc=0&c=0&w=-1&flr=0 The IOS committee has identified five areas (brief descriptions of these topics can be found at the end of the email) where we think that integration might help advance our field and we have invited discussion leaders for each of these. The topics include: (1) Integrating over different subfields; (2) Integrating over spatial and temporal scales; (3) Integrating over taxonomic/environmental/ecosystems gaps; (4) Consistent reporting standards and measurements of RI and gene flow to facilitate meta-analyses/comparative analyses and (5) Integrating the language of speciation. The aim of the workshop is to discuss these challenges,

and write a perspective article that we plan to submit to the Journal of Evolutionary Biology with all workshop participants as authors. During the workshop the discussion leaders will lead small group discussions to highlight the main challenges in each area, identify possible solutions, and draft a detailed outline for each topic.

All costs related to accommodation and meals during the workshop will be covered, but participants are expected to cover their own travel to Finland. However, we acknowledge that opportunities for travel funding may not be equal, and aim to support participants if no other funding exists. If you consider yourself in this situation, please let us know via the application form.

Best regards,

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

~ Description of the workshop topics ~

Topic 1: Integrating over different subfields (invited discussion leader Leonie Moyle)

Description: Speciation is a multi-level phenomenon unfolding over time and space and is studied using a range of approaches, both empirical and theoretical, including population genetics, behavioural and community ecology, phylogenetics, systematics, and palaeontology. However, the findings of some subfields are better integrated together than others, and a complete understanding of speciation and its outcomes will require integrating over all relevant research areas and approaches effectively, as well as bridging philosophical, theoretical and empirical gaps between subfields. In this part of the workshop, we will consider what is required in order to bridge these gaps between subfields and to ensure that insights from the breadth of speciation research are fully integrated into a coherent whole.

Topic 2: Integrating over spatial and temporal scales (invited discussion leader Ryo Yamaguchi)

Description: Species originate through the accumulation of reproductive isolation, and divergence to exploit different ecological niches; this typically occurs over millions of years, and over an extended spatial range. We study these processes over very different scales, ranging from narrow hybrid zones, formed relatively recently, to genealogical and phylogenetic studies over large temporal and spatial scales. How can we integrate such diverse studies?

Topic   3:   Integrating   over   taxo-

nomic/environments/ecosystems   gaps   (invited discussion leader Aaron Comeault)

Description: Population divergence and speciation are shaped by complex interactions between genomes and the environment. However, recent advances in our understanding of these interactions are generally limited to a handful of model systems that are not representative of the diversity of life on earth. Additionally, speciation researchers working on different taxonomic groups tend to focus on different aspects of speciation and there is a heavy citation bias towards studies on the same taxonomic group (e.g. plants versus

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GreenBankObs Astrobiology

Save the Date: Oxygen in Planetary Biospheres

Green Bank Observatory May 5-7, 2023

We are pleased to announce the Second BarryBlumbergMemorial Workshop in Astrobiology.

This 3-day workshop at the Green Bank Observatory will focus on topics related to the role of oxygen in the universe, planets and life, and how the rise of oxygen on Earth may (or may not) likely have analogs on other planets.

Attendance is limited to 50 participants, by application only, and all registration and travel expenses will be covered. The conference scope should be construed broadly; researchers working on any related problems are strongly encouraged to apply.

Recognizing the challenges the pandemic has presented for networking over the past several years, this workshop will have a strong focus on early career researchers, and will have broad international participation. Presenters are encouraged to gear their talks to an interdisciplinary audience, eschewing the trees of internecine disciplinary debates for the forest of broader understanding.

The full workshop description ishere. The call for applications and abstract submission announcements will be forthcoming in the next few weeks.

Jason Wright <astrowright@gmail.com>

Nicaragua MarineMammalTrainingProgram

Training on whale, dolphin and sea turtle research in Nicaragua - Central America, closing date: 12/31/2022 for season 1 and 06/30/2023 for season 2.

Dear EvolDir community,

Association ELI-S is a small non-profit organization based in France that was created in 2013. Our organization aims at promoting, protecting and conserving cetaceans in Central America. We are running the Cetacean Conservation Project of Nicaragua since 2016. This pioneer project aims to generate knowledge on cetacean presence, population size, distribution and habitat use patterns. The expected output is to generate: 1) scientific data on whales, dolphins and sea turtles in Nicaragua to assess distribution and movement patterns, behaviours and, 2) environmental awareness to the local communities in order to create a socio-economic relevance in conserving and protecting their natural environment and 3) responsible eco-tourism by participating to beach clean-up.

Association ELI-S is recruiting research assistants for field work, photo-identification and data entry between February and April (season 1) and August-September (season 2) 2023 in San Juan del Sur. A commitment of minimum 2 weeks is expected.

Team

- Joëlle De Weerdt, PhD Candidate Vrije Universiteit Brussel (VUB), Project director of Cetacean conservation of Nicaragua

- Leslie Blanchet, MSc, Research Assistant in Association ELI-S

WHAT WE OFFER:

- A unique experience in Central America to study cetaceans

- Online training covering following topics: Cetaceans Ecology and Biology, Research methods and Fieldwork (23rd to 27th of January)

- High- quality two weeks training program including at least 4 field trips

- Experience research and conservation in the field from a researcher and local community perspective

- Valuable experience to pursue a marine research career

- Possibilities of entering research community and developing scientific and professional web

- Real field experience giving additional value to your CV

- Possibilities to learn a new language (French or Spanish)

This training is a unique opportunity to participate in a pioneer research project on cetacean conservation in Central America under the supervision of experienced marine biologists, which gives the opportunity for the participants to develop both professionally but also personally thanks to the unique experience to live within local communities.

Location: San Juan del Sur, South-West ofNicaragua

Project length: 15th of February to 15th of April (deadline: December 31st) and 1st of August to 30th of September (deadline: June 30th) with a minimum of 2 weeks commitment

Type of agreement: Full time

Age: minimum 21 years old

WHAT TO EXPECT:

- Assist in boat-based surveys and data collection on cetaceans

- Photo-identification of whale and dolphin species including matching and grading (computer based)

- Data entry of collected field data

- Participate to public outreach and events

Knowledge you need to participate:

- Enthusiastic, conscientious and proactive (!)

- Interest in marine wildlife and conservation

- Be able to solve problem in unanticipated situations

- Have an attention to detail and follow policies and procedures

- Being comfortable on a small boat and spend long hours on a boat in the sun

- Being able to work in a small team

- Be able to swim

- Spoken language: English (mandatory), French (not mandatory) or Spanish(optional)

Successful candidates will:

- Gain valuable and unique experience in cetacean survey techniques including behavioural studies, biopsy sampling procedures and acoustic data collection

- Work in a very dynamic environment

- Get insight in running a research project in developing countries

DATES AND FEES

15 February - 28 February

1st March - 15 March

15 March - 31 March

1st April - 15 April

1st August - 15 August

15 August - 31 August

1st September - 15 September

15 September - 30 September

(min. 2 weeks commitment)

500$ for two weeks

What is included :

- A membership to Association ELI-S for a year

- An online training on field methods and protocols of 10 hours (23rd to 27th of January)

- A full marine biologist training (photo-identification, acoustic, data collection, behaviour ...)

- Fieldwork including boat surveys

- Team support for travel logistics and local activities

What is not included:

- Accommodation (an extra of 300$ for 2 weeks is asked for an accommodation)

- Meals

- Travel to the study site (international flight and national transportation) but we'll help you to organise your trip if needed.

- Personal expenses: restaurants, bars, telephone, laundry, etc.

- Travel health insurance

- VISA fee (10$)

You can't make it to Nicaragua but wish to have a marine mammal training online? You can participate to our online sessions, find out more here:

— / —

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 DeepLearningPopGenomics Feb20-23

o Dear all,

registration is now open for the Physalia course " Deep Learning in Population Genomics and Phylogeography "

Format and dates: Online, February 20th-23rd (2-8 pm Berlin time)

This course will focus on using deep learning, specifically Convolutional Neural Networks (CNN), to extract information from genetic data for population genomics and phylogeography inference. The theoretical background for simulating genetic data and developing deep learning architectures will be covered and followed by practical examples, in modules structured over five days. On the first day, the participants will learn how to conceive and simulate genetic data under competing demographic scenarios. Day 2 will cover deep learning background and simple practical examples to understand how a CNN works. In Day 3, deep learning will be used to compare the demographic scenarios conceived in Day 1. Day 4 will be dedicated to the simulation of genomic regions with selective sweeps and using CNN to detect such regions on real genomes. The course is structured to include lectures with discussions of key concepts and practical hands-on sessions, contextualised with research study cases.

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)

"info@physalia-courses.org"   <info@physalia-courses.org>

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Online EcoPHylogenetics ComparativeAnalyses Oct13-17

ONLINE COURSE 'Introduction to eco-phylogenetics and comparative analyses using R (ECPH02)

https://www.prstatistics.com/course/introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph02/ Please feel free to share!

13th - 17th October 2023

In this five day course, we provide an introduction to eco-phylogenetics and comparativeanalyses using R. We begin by providing an overview on the use of phylogenies as a tool forevolutionary biologists and modern techniques to deal with large phylogenies and to incorporate phylogenetic uncertainty in the analyses (day 1). We then cover some of themost relevant eco-phylogenetic analyses and provide examples from the community to themacro-ecological scale (day 2-3). Finally, we introduce a diversity of classic and modern phylogenetic comparative methods to consider the historical relationship of lineages ineco-evolutionary research, including models of trait evolution, analysis of cladediversification and the use of phylogenies in spatial distribution models among others (day 4-5).

Please   email   any   questionstooliver-hooker@prstatistics.com

UPCOMING   COURSES   https://-www.prstatistics.com/live-courses/   Adapting to the recent changes in R spatial packages (sf, terra, PROJ library) (PROJ03) https://-www.prstatistics.com/course/adapting-to-the-recent-changes-in-r-spatial-packages-sf-terra-proj-library-proj03/   Ecological niche modelling using R (ENMR04)   https://www.prstatistics.com/course/-ecological-niche-modelling-using-r-enmr04/   Introduction to Aquatic Acoustic Telemetry (IAAT02) https://www.prstatistics.com/course/online-course-introduction-to-aquatic-acoustic-telemetry-iaat02/ Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM09) https://www.prstatistics.com/-course/stable-isotope-mixing-models-using-r-simm09/ Making Beautiful And Effective Maps In R (MAPR04) https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr04/ Structural Equation Modelling for Ecologists and Evolutionary Biologists (SEMR05) https://www.prstatistics.com/-

course/structural-equation-modelling-for-ecologists-and-evolutionary-biologists-semr05/ Movement Ecology (MOVE05) https://www.prstatistics.com/course/online-course-movement-ecology-move05/ Introduction to eco-phylogenetics and comparative analyses using R (ECPH02) https://www.prstatistics.com/course/-introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph02/ –

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Online GeneSetEnrichmentAnalysisInR Jan30-Feb2

Dear all,

Registration is open for the 2nd edition of the (https://www.physalia-courses.org/courses-workshops/gse-in-r/)

Dates: online, 30th January- 2nd February 2023

In this course, we will teach the use of popular GSEA tools, both for online-based tools and those implemented as R packages. We will give a detailed introduction on a variety of methods of GSEA analysis, including overrepresentation analysis, univariate methods, multivariate methods, as well as extensions of GSEA analysis, such as network-based GSEA, and single-sample GSEA. Finally, you will also learn downstream processing of GSEA results, including efficiently visualizing the massive GSEA results, clustering, and simplifying GSEA results via various methods. In the course, we will cover some other topics that are tightly related to GSEA analysis, such as multiple hypothesis testing. You will also learn how to implement GSEA methods completely from scratch in R.

LEARNING OUTCOMES

be able to perform GSEA analysis with popular tools; understand various methods of GSEA analysis; efficiently visualize GSEA results

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://mas.to/@PhysaliaCourses)

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Online GenomeAssemblyAnnotation Feb27-Mar3

Dear all,

registration is now open for the 2nd edition of the Physalia course "ASSEMBLY AND ANNOTATION OF GENOMES"

Format and dates: Online, February 27th- March 3rd

Course website: (https://www.physalia-courses.org/-courses-workshops/course20/)

This course will introduce biologists and bioinformaticians to the concepts of de novo genome assembly and annotation, providing a theoretical framework and practical examples. A variety of sequencing technologies and their applications to generate haplotype-phased, high-quality reference genomes will be presented and discussed. They include Illumina short reads (for both assembly and gene annotation), PacBio HiFi ('High Fidelity') and CLR ('Continuous Long Read') reads, Oxford Nanopore long and ultralong reads, as well as scaffolding technologies including optical mapping and proximity ligation (Hi-C). Special attention will be given to quality control throughout the assembly process (e.g. tools such as Genomescope, Merqury, Pretext) as well as to consensus, structural error mitigation and manual curation. The concept of Telomere-to-telomere (T2T) genome assembly, and the means to achieve it, will also be introduced. Annotation tools using Illumina RNA-Seq and Pacbio IsoSeq data will be introduced. By the end of the course the students will be able to understand what is needed to generate an annotated and curated reference genome of high-quality.

For the complete list of our courses and Workshops, have a look at: (https://www.physalia-courses.org/-courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online IntroductionToNextflow Dec5-6

Dear all,

registration is open for the 2nd edition of the "Introduction to Nextflow" course, which will be held online in December (5th-6th).

Course website: https://www.physalia-courses.org/-courses-workshops/course60/ Nextflow has fast become one of the primary technology platforms for computational workloads in life sciences.

The course is intended for users to become quickly proficient in Nextflow technology, starting from basic through to advanced concepts. The majority of the practicals will make use of command-line tools. Therefore familiarity with a *nix environment (e.g. Linux or MacOS) and the shell (e.g. Bash) are highly desirable.

Monday- Classes from 2-8 pm CET

Introduction to Nextflow Basic Scripting in Nextflow Channels Processes Operators Executors RNA-Seq pipeline

Tuesday- Classes from 2-8 pm CET Configuration Pipeline Parameters Workflows Modules Sharing Pipelines RNA-Seq pipeline 2

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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courses.org>

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Online IntroMacroevolutionaryAnalyses Jan16-20

Dear colleagues,

You can register now to the 10th edition of Transmitting Science course "Introduction to Macroevolutionary Analyses Using Phylogenies"

Format: Live Online (synchronous). Places are limited to 15 participants.

Dates and schedule: January 16th-20th, 2023 from 15:00 to 19:00 (Madrid time zone). 20 hours of online live lessons, plus 20 hours of recorded classes and assignments.

Instructor: Dr. Juan L. Cantalapiedra [1] (Universidad de Alcali¿$\frac{1}{2}$, Spain)

More information and registration: https://-www.transmittingscience.com/courses/evolution/-introduction-macroevolutionary-analyses-using-phylogenies/ Course Overview

Phylogenetic trees have changed the way we study and understand life on Earth. Taking phylogenetic information into account in our analyses is critical to account for the non-independence of biological data. Also, phylogenies allow us to get a deep-time perspective of the processes that have shaped the evolutionary history of groups, including diversification and trait evolution.

This course will introduce participants to the use, modification and representation of phylogenetic trees. Also, we will focus on the use of phylogenetic information to reconstruct ancestral characters and biogeographic histories, using different phylogenetic comparative methods.

This course will also tackle trait evolution modelling and the assessment of phylogenetic signal. Finally, we will learn about the shape of phylogenetic trees and its evolutionary causes, and how to estimate the rates of diversification throughout the history of groups. Participants are encouraged to bring their data sets to use in the practical classes.

The course includes an optional first introductory day

to basic R.

Important note: Please bear in mind that this course is not about reconstructing (building) phylogenetic trees.

Software: Mesquite, FigTree, R (ape, TreeSim, TreePar, Geiger, OUwie, BioGeoBEARS).

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. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

Links:

[1] https://www.transmittingscience.com/instructors/-juan-l-cantalapiedra/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online MachineLearningInR Feb13-17

Dear all,

registrations are now open for our ONLINE course "Machine Learning for biologists- a hands-on introduction"

Online, February 13th-17th 2023

Course website: https://www.physalia-courses.org/-courses-workshops/course43/ The objective of the course is to provide a broad hands-on introduction to the use of multivariate methods and machine learning for the analysis of complex biological datasets.

The syllabus has been planned for people with zero or basic knowledge of machine learning. Students are assumed to have basic familiarity with the R programming language.

Here is the complete list of our courses and Workshops: https://www.physalia-courses.org/courses-workshops/ Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online Metabarcoding Feb6-10

Dear all,

registration is now open for the 6th edition of the "Metabarcoding in Microbial Ecology" course.

Format and dates: online, February 6th-10th (2-8 pm Berlin time)

Course website: (https://www.physalia-courses.org/-courses-workshops/course30/)

This course will provide a thorough introduction to the application of metabarcoding techniques in microbial ecology. The topics covered by the course range from bioinformatic processing of next-generation sequencing data to the most important approaches in multivariate statistics. Using a combination of theoretical lectures and hands-on exercises, participants will learn the most important computational steps of a metabarcoding study from the processing of raw sequencing reads down to the final statistical evaluations. After completing the course, the participants should be able to understand the potential and limitations of metabarcoding techniques as well as to process their own datasets to answer the questions under investigation.

After attending the course, attendees will be able to:

1) understand the concept, potential and limitation of microbial metabarcoding techniques.

2) learn how to process raw sequencing reads to obtain meaningful information.

3) obtain experience on how to statistically evaluate and visualize your data.

4) make informed decisions on best practices for your own data.

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)

"info@physalia-courses.org" <info@physalia-courses.org>

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Online Modelling Mar6-10

Structural Equation Modelling for Ecologists and Evolutionary Biologists (SEMR05)

https://www.prstatistics.com/course/structural-equation-modelling-for-ecologists-and-evolutionary-biologists-semr05/ 6th-10th March 2023 Day 1

Introduction to SEM Module 1: What is Structural Equation Modeling? Why would I use it? Module 2: Creating multivariate causal models Module 3: Fitting piecewise models Readings: Grace 2010 (overview), Whalen et al. 2013 (example)

Day 2 SEM Using Likelihood Module 4: Fitting Observed Variable models with covariance structures â€Module 5: What does it mean to evaluate a multivariate hypothesis? Module 6: Latent Variable models â€Module 7: ANCOVA revisited & Nonlinearities Readings: Grace & Bollen 2005, Shipley 2004 Optional Reading: Pearl 2012, Pearl 2009 (causality)

Day 3 Piecewise SEM Module 8: Introduction to piecewise approach Module 9: Incorporation of random effects models Model 10: Autocorrelation â€Reading: Shipley 2009; Lefcheck 2016

Day 4 Advanced Topics with Likelihood and Piecewise SEM Module 11: Multigroup models and non-linearities Module 12: Composite Variables Module 13: Phylogenetically-correlated data Module 14: Prediction using SEM Module 15: How To Reject A Paper That Uses SEM Readings: Grace & Julia 1999, von Hardenberg & Gonzalezâ2013

Day 5 Open Lab and Final Presentations

Please email any questionstooliverhooker@prstatisitcs.com

UPCOMING COURSES

https://www.prstatistics.com/live-courses/ Adapting to the recent changes in R spatial packages (sf, terra, PROJ library) (PROJ03)

https://www.prstatistics.com/course/adapting-to-the-recent-changes-in-r-spatial-packages-sf-terra-proj-library-proj03/ Ecological niche modelling using R (ENMR04)

https://www.prstatistics.com/course/ecological-niche-modelling-using-r-enmr04/ Introduction to Aquatic Acoustic Telemetry (IAAT02)

https://www.prstatistics.com/course/online-course-introduction-to-aquatic-acoustic-telemetry-iaat02/ Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM09)

https://www.prstatistics.com/course/stable-isotope-mixing-models-using-r-simm09/ Making Beautiful And Effective Maps In R (MAPR04)

https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr04/ Structural Equation Modelling for Ecologists and Evolutionary Biologists (SEMR05)

https://www.prstatistics.com/course/structural-equation-modelling-for-ecologists-and-evolutionary-biologists-semr05/ Movement Ecology (MOVE05)

https://www.prstatistics.com/course/online-course-movement-ecology-move05/ Introduction to eco-phylogenetics and comparative analyses using R (ECPH02)

https://www.prstatistics.com/course/introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph02/ –

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Online RNAseqAnalysis Feb14-APr25

Dear all,

The second edition of the online RNA-seq data analysis course will take place from the 14th of February till the 25th of April 2023. We will be focused not only on the practicalities of how to analyse this kind of data but also on the conceptual and statistical underpinnings of the methods - so they don't feel like a black box. The course is designed to be accessible also to participants that have little or no previous experience with statistics and/or R programming. Everybody is welcome!

The course is made up of weekly Zoom sessions that aim to be as interactive and as hands-on as possible. The participants will also be completing small weekly assignments, with individual written feedback each time.

I would be grateful if you could share with colleagues that may be interested!

Syllabus and registration: https://www.mondegoscience.com/courses/analysis-of-rna-seq-data-online-2023 To stay up-to-date, follow Mondego Science on social media (pick your favourite platform!):

https://www.facebook.com/mondegoscience https://www.linkedin.com/company/mondego-science https://www.instagram.com/mondegoscience/ https://twitter.com/MondegoScience https://mstdn.science/@mondegoscience Hope to see you soon, Rosina.

rosinasavisaar@gmail.com

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SanDiego PopConservGenomics Jan13-18

Abstract deadline Extended to November 4, 2022

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 November 4, 2022. You will be notified by November 11, 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@unb.ca" <om.rajora@unb.ca>

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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.