
E v o l D i r

October 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

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ArizonaStateU MechanismsCellEvolution Nov4-5 ExtendedDeadline

“The key to every biological problem must finally be sought in the cell, for every living organism is, or at some time has been, a cell.” - E.B. Wilson

You are cordially invited to register for our 2022 Annual Symposium on Mechanisms of Cellular Evolution, held on November 4-5, 2022 at the BII Center for Mechanisms of Evolution at Arizona State University in Tempe, AZ. This event will serve as the inauguration of an annual series of symposia focused on various topics in the field of evolutionary cell biology (ECB). This emerging, interdisciplinary field of ECB encompasses the fields of both evolutionary biology and cell biology in collaboration with biochemistry, biophysics, population genetics, molecular biology, mathematics, and other similar fields. The motivation behind this meeting is the simple point that the cell and its contents define the natural setting within which genes, genomes, proteins, and other molecular features evolve. It follows that a stronger focus on the molecular features inside of cells and the constraints under which they function will lead to an improved understanding of evolutionary processes. Remarkably, despite well-established fields of molecular evolution, genome evolution, and evolutionary developmental biology, we still have no recognizable field of ECB. Our efforts with this symposium seek to change that. Through these efforts, we aim to facilitate a diverse, interdisciplinary, and collaborative network

of scholars that seek to understand the evolutionary mechanisms underlying cellular evolution. This year, our focus will be on subcellular protein localization and function in diverse eukaryotes, and we are thus soliciting for abstracts for poster presentations and selected talks related to these general theme. Attendees of our in-person symposium will have a chance to engage with our three keynote speakers, Ross Waller of the University of Cambridge, Lena Pernas of the Max Planck Institute for Biology and Ageing, and Aaron Turkewitz of the University of Chicago, develop connections with other scientists in our poster session, and collaborate on addressing some of the most pressing issues in ECB in our roundtable session. We will also be having an option to engage in the symposium in a hybrid format to allow for engagement with the invited talks.

Registrations and poster abstracts are due September 30, 2022 @11:59pm Arizona time. Thanks for your consideration, and we look forward to reviewing your abstracts. Questions about the symposium can be sent to the Program Manager, Josh Hoskinson, at josh.hoskinson@asu.edu. Sincerely, The BII Center for Mechanisms of Evolution at Arizona State University Register here: <https://na.eventscloud.com/-ereg/newreg.php?eventid=662464> Click here to register now!

Josh Hoskinson <josh.hoskinson@asu.edu>

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CIBIO Portugal Colour Evolution Dec5-7

TiBE 2022 | THE BIOLOGY OF COLOUR

December 5-7, 2022 | Vairi $\frac{1}{2}$ o, Portugal

— CALL FOR ABSTRACTS NOW OPEN —

The 2022 edition of TiBE - Trends in Biodiversity and Evolution will be devoted to THE BIOLOGY OF COLOUR. Colour is a central aspect of the biology of many living beings, contributing to mediate their relationship with members of their own species and their ecosystem. During three days, we will discuss recent trends in the study of the evolutionary and functional significance of colour in nature integrating knowledge from biologists working on multiple aspects of colouration. Held in an informal but stimulating scientific atmosphere, these conferences provide an excellent opportunity for strong interaction and brainstorming between students and more experienced researcher

— PROGRAM —

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

Session 1 - Genetics and Evolution of Colour Plenary talk: Marie Manceau (Coll $\frac{1}{2}$ ge de France, Paris)

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

Session 3 - Behavioural Ecology and Signalling Plenary talk: Claire Doutrelant (Centre d' $\frac{1}{2}$ ecologie Fonctionnelle et $\frac{1}{2}$ volutive, Montpellier)

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

— PARTICIPATE —

Abstract submission: <https://tinyurl.com/-tibe2022submit> Registration: <https://tinyurl.com/-tibe2022register>

— MORE INFORMATION —

Venue: CIBIO, Research Centre in Biodiversity and Genetic Resources Location: Campus de Vairi $\frac{1}{2}$ o, Por-

tugal (<https://cibio.up.pt/en/about/how-to-get-here>)

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

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

TiBE2022: THE BIOLOGY OF COLOUR 5-7 December, 2022 BIOPOLIS/CIBIO-InBIO Vairi $\frac{1}{2}$ o (Portugal)

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

TiBE2022 <tibe@cibio.up.pt>

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Cogne Italy Rupicapra Sep27-30

Dear Rupi-people,

We hope this email finds you all well and safe! The 8th World Congress on Mountain Ungulates (<https://8wcmu.grand-paradis.it/>) is approaching fast, and as you may see from the program embedded below, on WED 28th, between 18:30 and 19:30h, we have reserved a slot for a Rupicapra Group meeting. We believe this will be a good opportunity, for those of us who are attending the Congress, to meet in person and discuss some of the hot-topics that emerged during our last meeting online, including -but not limited to- international research/monitoring collaborations, the possibility to give the group a clearer structure (see, e.g., the Ibx European Group), and the participation to initiatives such as Euromammals. We look forward to meeting in person in Cogne in a few weeks!

Luca, Nikica, Laura and Toni

8 WCMU 27-30 September 2022 *Cinema Grivola, Cogne (AO) Italy*

PRESENTATION PROGRAM

Tuesday 27th September *09:30-13:00 **Registration and poster mounting* 13:00-13:30 *Bruno Bassano* - Opening and welcoming address 13:30-14:00 *Sandro Lovari* - Invited talk: The chamois in (Great) Paradise: what have we learnt from them? 14:00-14:30

Stefan Michel - Invited talk: The Re-Assessment of Caprinae in the IUCN Red List - Results and Challenges 14:30-14:45 *Berihun Gebremedhin* - Species distribution prediction and connectivity for identification of future reintroduction sites for the Walia ibex 14:45-15:00 *Romaan Hayat Khattak* - Evaluating habitat suitability for threatened Kashmir markhor (*Capra falconeri* *cashmeriensis*) in the Hindu Kush mountains, Northern Pakistan 15:00-15:15 *Tanushree Srivastava* - Recovery of Kashmir markhor *Capra falconeri cashmiriensis*: identification of critical habitats and their protection through community-based interventions 15:15-15:30 *Khurshed Shamsuddinov* - Post-Soviet recovery of markhor in Tajikistan: a conservation success story 15:30-15:45 *Juan* *Herrero* - The recovery of Iberian wild goat *Capra pyrenaica* in southern Pyrenees 15:45-16:00 *Alexandre Garnier* - Conservation of ibex species in France. Contribution of post-translocation monitoring of *Capra pyrenaica* in the Pyrenees *16:00-16:30 **Coffee break* 16:30-16:45 *Alessandro Asprea* - Dynamics of the Apennine chamois population in the Maiella National Park: the outcome of a (so far) successful reintroduction 16:45-17:00 *Attila Farkas* - Evaluation of the management of Northern chamois (*Rupicapra rupicapra carpatica*) population based on population estimates and hunting bag data from Romania 17:00-17:15 *Raul Valdez* - Status and management of wild sheep in Mexico 17:15-17:30 *Brittany L. Wagler* - Effects of helicopter net-gunning on survival of bighorn sheep 17:30-17:45 *Wibke Peters* - Global ungulate migrations in a changing world & a plea for maintaining altitudinal migrations 17:45-18:00 **Camilla Smoglica* - Microbial communities and antimicrobial resistance genes in Apennine chamois in Maiella National Park 18:00-18:15 *Yash Veer Bhatnagar* - (video presentation) Riding the carnivores: upgrading Caprinae through carnivore conservation *18:30-20:30 Poster session and **ice breaker*

Wednesday 28th September 09:00-09:30 *Marco Festa-Bianchet* - Invited talk: Intense directional selective pressure from trophy hunting causes evolution of smaller horns, despite denials 09:30-09:45 *Valter Di Cecco* - The pastoral value of high altitude vegetation in Maiella National Park: could effects of climate change improve the trophic availability for the Apennine chamois? 09:45-10:00 *Francesca A. Lioce* - Diet and trophic niche overlap between wild ungulates and livestock in the Italian Alps 10:00-10:15 *Roberta Chirichella* - The influence of geological substrate on senescence in Alpine chamois as a function of tooth wear 10:15-10:30 *Anne Loison* - Chamois survival depends on their foodscape *10:30-11:00 **Coffee break* 11:00-11:15 *Wibke Peters* - Partial migration and seasonal habitat selection in an iconic

mountain ungulate 11:15-11:30 *Valerio Donini* - Effects of red deer and increasing temperature on chamois upslope shift 11:30-11:45 *Hendrik Edelhoff* - Contrasting density gradients of two alpine ungulates - a study using spatial capture-recapture modelling 11:45-12:00 *Achaz von Hardenberg* - Differences in the population dynamics of two sympatric mountain ungulates: Alpine ibex and Alpine chamois in the Gran Paradiso National Park 12:00-12:15 *Carole* *Toïgo* - How climate indirectly influences Alpine ibex individual performance through forage availability 12:15-12:30 *Tawqir Bashir* - Forecasting Markhor (*Capra falconeri falconeri*) distribution and connectivity in Kashmir Himalaya under climate change scenarios *12:30-14:30 **Lunch break* 14:30-14:45 *Zalmai Moheb* - Factors influencing the spring distribution of sympatric urial and Siberian ibex in the Hindu Kush Mountains of Wakhan National Park, Afghanistan

— / —

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

EMBL
CellularMechanicsOfSymbiosis
Mar8-11

<https://www.embl.org/about/info/course-and-conference-office/events/ees23-01/>

Symposium overview

Host-microbe interactions can be positive or negative for both a host organism and its symbiotic microbes. Interacting with microbes can allow eukaryotes to acquire crucial functions, like nutrient production, but interactions can also be pathogenic in nature. This cross-disciplinary meeting will bring together scientists using cellular, molecular, ecological, physiological, and theory-based approaches to explore the evolution of intimate species-species interactions. Our aim is to understand the cellular systems and pathways that drive transitions in symbiotic states, for example, as partnerships move from pathogenesis to beneficial and back again.

Date: 8 - 11 Mar 2023 Location: EMBL Heidelberg and Virtual Venue: EMBL Advanced Training Centre

Deadline(s): Abstract submission: 14 Dec 2022 Registra-

tion (On-site):4 Jan 2023 Registration (Virtual):1 Mar 2023

Thank you in advance!

Best regards,

Mayra Sanchez

Mayra Gabriela Sanchez Ponce
<mayra.sanchez@embl.de>

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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 Oct12

Online Butterfly Evolution 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%3a2uJIBVmMyU0KyhL7ghCM_xttoV6ahjQEPEIzDYifIAA1%40thread.tacv2/-1664258770484?context=-

https://teams.microsoft.com/l/meetup-join/19%3a2uJIBVmMyU0KyhL7ghCM_xttoV6ahjQEPEIzDYifIAA1%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

Hi all,

The CIGENE seminar series (ZOOM Online) will start in October, with speakers representing different areas within genetics, ecology, and evolution. We are very pleased with the program and look forward to many interesting presentations in the upcoming months.

Please visit our seminar page for more info. <https://cigene.no/cigene-seminar-series/> Zoom link: <https://nmbu.zoom.us/j/67064421833> Date Speaker Topic Affiliation 12/10/2022 Justin Merondun cuckoo egg mimicry PhD candidate at LMU Munich 19/10/2022 Kenji Takata coral molecular ecology PhD candidate at UTokyo 26/10/2022 Helle Tessand Baalsrud cod evolution Senior Postdoc, NMBU 02/11/2022 Louise Chavarie salmon ecology Associate Prof, NMBU 09/11/2022 Eric Vespoor phylogeography/population genetics Prof, University of the Highlands and Islands 16/11/2022 Linnea Smeds wolf genomics PhD candidate, Uppsala University 30/11/2022 Ryota Hasegawa salmon parasite PhD candidate at UHokkaido 07/12/2022 Tanja Pyhäjärvi forest evolutionary genetics Prof. University of Helsinki

Best, Marie

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

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Online ESEB STN Speciation Oct11

Dear colleagues,

A reminder that 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 11th October 2022, 9 am CET.

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

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

To attend the session live, please follow the link on our website: <https://speciation-network.pages.ist.ac.at/seminar-series/> . Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/UCIEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

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

We look forward to seeing you there!

The STN IOS organising committee

Jonna Kulmuni (chair), Chris Cooney, Sean Stankowski, Carole Smadja (co-chairs), Sonal Singhal, Liz Scordato,

Joana Meier, Richard Merrill, Konrad Lohse, Nick Barton and Roger Butlin

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

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Online EvolutionBehaviour Nov17-18

Dear colleagues,

We are Animal behaviour Live, an international online platform promoting sustainable and inclusive events fully broadcasted online on YouTube. We aim to bring together researchers in animal behaviour from all over the world to discuss the latest research and question our academic practices. We are glad to announce that this year we are hosting the third edition of the Animal Behaviour Live: Annual Online Congress on the 17th and 18th of November 2022.

In line with our ethos, the event is free of charge to all researchers from the community, and we strive to ensure representation from all across the globe and in line with our communities’ composition. To ensure that everyone can participate, we organise multiple sessions per day for a holistic coverage of all time zones. In addition, every presentation is available to replay on our YouTube channel for at least two weeks past the congress. You can find more information about our conference on our website (<https://animalbehaviour.live/aoc.html>), or by watching some of our past videos on the YouTube channel (<https://www.youtube.com/channel/UCkAcB-k186yZmalqNJ9JTJw>).

Our organisation is small (we are 7 early career researchers working on a voluntary basis) and the success of this event is based on the support of our community. For this reason, we would be particularly grateful if you could spread the word about this event to your community. To do so, you can find attached a flyer of the event. In addition, if you have a twitter account, you can also follow us (@AnimalBehavLive) and RT our announcement about the congress.

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

Kinds regards,

The organising committee.

Dr Natacha Rossi (she/her) Post-doctoral Research Associate Department of Biological and Experimental Psychology School of Biological and Behavioural Sciences Queen Mary University of London, London, UK, E1 4NS

Natacha Rossi <n.rossi@qmul.ac.uk>

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OnlineSeminar ESEB STN Speciation Sept20

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 Tuesday the 20th of September 2022, 5 pm CET.

The upcoming session addresses the general topic of “Challenges in measuring reproductive isolation”. We welcome as speakers Anna Qvarnström (Uppsala University, Sweden) and James Sobel (Binghamton University, USA).

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

To attend the session live, please follow the link on our website: <https://speciation-network.pages.ist.ac.at/seminar-series/> . Talks (but not the discussion session) are recorded and made available here: <https://www.youtube.com/channel/UCIEkDdE.5sDw70SQq78DIAA> . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in

scientific discourse.

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

We look forward to seeing you there!

The STN IOS organising committee

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

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

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Online Transposons Oct26-28

Dear colleagues,

The 6th Uppsala Transposon Symposium - “integrating transposon and virus identification into evolution and disease research” will be on October 26-28 at the Evolutionary Biology Centre in Uppsala (with a livestream for virtual attendance)!

Invited speakers: - Irina Arkhipova (Marine Biological Laboratory) [keynote 1] - John Coffin (Tufts University) [keynote 2] - Kenji Kojima (Genetic Information Research Institute) - Alice Eunjung Lee (Harvard University) - Gayle McEwen (Leibniz Institute for Zoo and Wildlife Research) - Arian Smit (Institute for Systems Biology) - Björn Nystedt (SciLifeLab)

NEW: The third day will be a community-driven workshop day, with tool developers from RepeatModeler/Masker, Repbase, dfam, REPET, dnaPipeTE, TEhub, RepeatExplorer all present in Uppsala for interactive demos.

In-person attendants can submit an abstract until September 23 for a regular talk or poster with lightning talk. NB: Late registration is only possible until September 30.

Virtual attendants can register for a live stream of the symposium where everyone can ask written questions

that the chair will read out for the in-person audience. Late registration is possible until October 18.

You can find more information about the meeting and the link to the in-person vs. virtual registration forms here: <https://transposonsymposium.wordpress.com/6th-uppsala-transposon-symposium/> Welcome!

Best wishes, Alex

(on behalf of the organizing committee)

Organizing committee: - Alexander Suh (University of East Anglia and Uppsala University) - Claudia Kutter (Karolinska Institute) - Patric Jern (Uppsala University) - Contact us: transposonsymposium@gmail.com

Alexander Suh Professor @ School of Biological Sciences, University of East Anglia, UK Docent @ Dept. of Organismal Biology, Uppsala University, Sweden https://twitter.com/alexander_suh (Twitter) <http://genomicocosm.wordpress.com> (Blog) https://people.uea.ac.uk/a_suh (Lab website) <https://www.iob.uu.se/research/systematic-biology/suh/> (Lab website)

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

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Online Young Systematists Nov11

24th YOUNG SYSTEMATISTS' FORUM

Friday 11th November 2022, 9:30 am GMT

ZOOM Online

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

other established systematists are also encouraged to attend.

Prizes will be awarded for the most promising talk and flash presentation as judged by a small panel on the day.

Registration is FREE.

<https://systass.org/events/future-events/ysf2022/>

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

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

Abstracts must be submitted by e-mail in English and in Word format no later than Friday 14 October 2022. The body text should not exceed 150 words in length. Title, authors, and their professional affiliations/addresses should be included with the abstracts. If the presentation is co-authored, the actual speaker must be clearly indicated in BOLD text. The file should be in editable format (.doc or .odt, not pdf) and titled Surname-First-name-YSF2022.doc, for example Doe-Jane-YSF2022.doc.

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

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

If you have questions, feel free to contact us at ysf@systass.org

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

We're looking forward to meeting you online!

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

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

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

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SMBE2023 CallForSymposiaProposals

Subject:SMBE 2023 Call for Symposia Proposals - deadline 31 October

Dear All,

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

For each accepted symposium we provide financial support up to 5,000 Euros to facilitate symposium organizers in attracting outstanding invited speakers and to contribute to their own travel and lodging expenses. To submit your proposal please click on the link below and follow the instructions. Please complete and submit the form by 11:59pm CET October 31st, 2022. Successful applications will be confirmed by the middle of November. Please email us at smb2023@unife.it for any questions.

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

Please visit <https://app.oxfordabstracts.com/events/->

[3607/symposia/create](#) - to access the submission portal.

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

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

More information about the local organizers, the venues, and the structure of the meeting can be found at <http://www.smb2023.org/smb2023/MEETINGS/SMBE2023.aspx>
Best Regards, SMBE and 2023 LOC #SMBE23

Giorgio Bertorelle Department of Life Sciences and Biotechnology University of Ferrara, Italy

Giorgio BERTORELLE <ggb@unife.it>

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

Ventura CA QuantitativeGenetics Feb11-12

I believe this meeting is still very interesting for those working in evolution and natural selection.

Dear All:

After the cancellation of our 2021 meeting due to the COVID pandemic, the Gordon Research Conference (GRC) on Quantitative Genetics and Genomics is finally back!!

Please visit: <https://www.grc.org/quantitative-genetics-and-genomics-conference/2023/> The 2023 GRC on Quantitative Genetics and Genomics will be held at the Four Points Sheraton / Holiday Inn Express, in Ventura, California, USA. The theme of next year's meeting is "Leveraging High-Throughput Phenotyping Techniques to Study Complex Traits".

(GRC Chair: Guilherme Rosa, Vice Chairs Josephine Pemberton and Na Cai)

We have an incredible group of invited speakers, including:

Angela Cánovas (University of Guelph, Canada) Charlie Messina (University of Florida, USA) Chris-Carolin

Schoen (Technical University of Munich, Germany) Daniela Lourenco (University of Georgia, USA) David Houle (Florida State University, USA) Edward Buckler (Cornell University and ARS-USDA, USA) Emily Davenport (Penn State University, USA) Gosia Trynka (Wellcome Sanger Institute, UK) Gustavo de los Campos (Michigan State University, USA) Hasan Khatib (University of Wisconsin-Madison, USA) Jonathan Lynch (Pennsylvania State University, USA) Juan Pedro Steibel (Iowa State University, USA) Laura Raffield (University of North Carolina, USA) Loic Yengo (The University of Queensland, Australia) Luiz Brito (Purdue University, USA) Maria Martinez Castellero (Beta Bugs & Roslin Institute, UK) Marylyn Ritchie (University of Pennsylvania, USA) Matthew Hufford (Iowa State University, USA) Miguel Perez-Enciso (Centre Research Agrigenomics, Spain) Nathan Springer (University of Minnesota, USA) Suzanne McGaugh (University of Minnesota, USA)

The Discussion Leaders will be:

Alexander Lipka (University of Illinois at Urbana-Champaign, USA) Ana Vazquez (Michigan State University, USA) Andrea Doeschl-Wilson (Roslin Institute, University of Edinburgh & Swedish University of Agricultural Sciences, UK) Aniek Bouwman (Wageningen University & Research, The Netherlands) Bruce Walsh (University of Arizona, USA) Clare Gill (Texas A&M University, USA) Jack Dekkers (Iowa State University, USA) Libertat Tusell Palomero (INRA, France) Vivian

Breen (Cobb-Vantress, USA)

The Organizer of next year's GRC Power Hour is Rita Mumm (University of Illinois, USA)!

Please mark on your calendars!! And don't be late to submit your application!

In addition, as in previous years, the Gordon Research Seminars (GRS) on Quantitative Genetics and Genomics will take place on the weekend prior to the GRC (i.e., February 11 - 12, 2023). This is another great opportunity for graduate students and post-docs to network and to discuss career progression through mentoring sessions! More information at: <https://www.grc.org/quantitative-genetics-and-genomics-grs-conference/2023/> (GRS Chairs: Cassandra Spracklen and Elena Bernabeu)

Hope you see you in Ventura in February 2023!!

Guilherme Rosa (GRC Chair)

Guilherme J. M. Rosa University of Wisconsin-Madison
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Madison, WI 53706 USA Phone: + 1 (608) 265-8617
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page: <https://www.gjmrosa.org> GUILHERME J M
ROSA <grosa@wisc.edu>

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

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ArkansasStateU AmphibianParasitConGenomics

PhD assistantship, Amphibian parasitology and conservation genomics, Arkansas State University

The Gustafson Lab (<https://www.gustafsonlab.com/>) is seeking a candidate for a Doctor of Philosophy assistantship (in Molecular Biosciences or Environmental Sciences) to join the Conservation Genomics and Parasite Biodiversity laboratory in the Department of Biological Sciences at Arkansas State University. This fully funded PhD project arose from a combination of an Arkansas Game and Fish Commission grant and from a National Science Foundation grant. The student will research the effects of parasites and other pathogens on wood frog mass mortality events in the Ozarks of Arkansas, including effects on population genomic diversity. Therefore, this project includes extensive field work, molecular laboratory research, and bioinformatics. The student will have the freedom and support to expand the project based on their interests.

The successful candidate will work under an NSF Research Traineeship called UandI-DEECODE (pronounced “You and I decode”), which stands for Understanding Invasion and Disease Ecology and Evolution through Computational Data Education. This Research Traineeship aims to address the absence of interdisciplinarity across invasion biology, disease ecology, and data science by effectively bridging these disciplines and improving the pace and magnitude of scientific discovery across these fields (https://www.nsf.gov/awardsearch/showAward?AWD_ID=2151820&HistoricalAwards=false).

As a funded doctoral trainee in the UandI-DEECODE program, the successful applicant will have access to funds for travel and research, along with a one-year stipend. This stipend can be used to cover graduate school fees and living expenses. Continuing support for salary and tuition will come from university program funds or other external grants from academic mentors.

Trainees will be able to participate in a student leadership committee to help ensure the program’s longevity and that students’ needs are being met. Additionally, annual winter data bootcamps and summer professional development institutes will be organized. These will be opportunities for funded and non-funded students to collaborate on scientific case studies, hear guest speakers, and present research ideas or findings.

Qualifications: Master of Science in evolution, ecology, wildlife, parasitology, or other relevant discipline. Preference will be given to those with strong backgrounds in: quantitative ecology (e.g., experience with Program R, occupancy analysis), field biology (e.g., handling amphibians, dissections for parasites, camping), and/or population genetics (e.g., DNA extractions, Illumina library prep, qPCR). Applicants must be citizens or permanent residents of the U.S and have a valid driver’s license in the United States.

Contact: To apply, please send the following to Kyle Gustafson (kgustafson@astate.edu) with the subject line “NRT AGFC PhD application”: (1) One-page cover letter detailing your interests and qualifications for the position, (2) CV, (3) unofficial transcripts, (4) a writing sample (if possible), and (5) contact information for three professional references. You may also provide (6) any GRE scores, although they are not essential.

Review of applications will begin immediately and continue until the position is filled, but priority will be given to applications received by January 1, 2023. Selected finalists will then be directed to apply for the UandI-DEECODE program, which has a deadline of January 15, 2023. The position starts August 2023.

kgustafson@astate.edu

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

ArkansasStateU HostParasiteMolEvolution

We are seeking a candidate for a Ph.D. assistantship in Molecular Biosciences or Environmental Sciences at Arkansas State University. The student will use an integrative approach to study the relationships between Alaska grouse and their parasites. The project will incorporate field-based assessment, genomics, transcriptomics, and molecular screening to assess infection of parasites and evolutionary responses to infection in different populations of grouse species in Alaska. The successful candidate will be involved in field (sampling grouse), laboratory (genetic screening, genomic extractions and sequencing), and bioinformatics work. The project will be part of a longer-term collaborative project focused on the dynamics of novel parasite infection in Arctic grouse populations. Therefore, the successful candidate will also work with collaborators at the University of Nebraska-Lincoln and Nebraska Cooperative Fish and Wildlife Research Unit, along with a team of private landowners and biologists at the Alaska Department of Fish and Game.

The successful candidate will work under a Research Traineeship called UandI-DEECODE (pronounced “You and I decode”), which stands for Understanding Invasion and Disease Ecology and Evolution through Computational Data Education. This Research Traineeship aims to address the absence of interdisciplinarity across invasion biology, disease ecology, and data science by effectively bridging these disciplines and improving the pace and magnitude of scientific discovery across these fields (https://www.nsf.gov/awardsearch/showAward?AWD_ID=2151820&HistoricalAwards=false).

As a funded doctoral trainee in the UandI-DEECODE program, the successful applicant will have access to funds for travel and research, along with a one-year stipend. This stipend can be used to cover graduate school fees and living expenses. Continuing support for salary and tuition will come from university program funds or other external grants from academic mentors.

Trainees will be able to participate in a student leadership committee to help ensure the program’s longevity and that students’ needs are being met. Additionally, annual winter data bootcamps and summer professional development institutes will be organized. These will be

opportunities for funded and non-funded students to collaborate on scientific case studies, hear guest speakers, and present research ideas or findings.

Qualifications: Master of Science (preferred) or Bachelor of Science in evolution, ecology, wildlife, or other relevant discipline. Experience with molecular techniques, bioinformatics (especially R or Python), and field work is desirable but not required. However, the successful candidate must exhibit a willingness to work hard, learn new skills, and be able to work well in a team. Applicants must be citizens or permanent residents of the U.S.

Contact: To apply, please send the following to Drew Sweet (asweet@astate.edu) with the subject line “NRT PhD application”: 1) One-page cover letter detailing your interest in the position, 2) CV, 3) unofficial transcripts, 4) a writing sample (if possible), and 5) contact information for three professional references.

Review of applications will begin immediately and continue until the position is filled, but priority will be given to applications received by January 1, 2023. Selected finalists will then be directed to apply for the UandI-DEECODE program, which has a deadline of January 15, 2023. The position starts August 2023.

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 ConservationModeling

The Conservation Governance and Conservation Genomics Labs in the College of Forestry, Wildlife, and Environment at Auburn University is looking to fill a unique, joint MS position starting Spring of 2023. Research in the Conservation Governance Lab is broadly focused on the integration of stakeholder data into conservation policy and one of the Conservation Genomics Lab foci is integration of biological data into models suitable for understanding management action outcomes. This project will combine these fields to understand the effects of bottlenose dolphin/sea turtle management and conservation by examining conflicting resource use of commercial and recreational fishermen, tourism opera-

tions, and wildlife viewers. These will be integrated in an agent-based model to provide actionable directives for future conservation work. Dr. Kelly Dunning, an expert in human dimensions of coastal systems, will be the primary mentor on this project, and the student will receive mentorship in science, public policy, and modeling, which will make them very competitive for today's job market.

The student selected to for this roll will fill a fully funded MS position, including tuition and living stipend (salary with healthcare benefits). The salary will be paid at the standard GRA stipend rate for the college of \$18,000 annually, with tuition fully covered by the assistantship (legal right to work in the United States required; this position cannot sponsor a visa). In addition to the research outlined above, the student may also be asked to serve as a teaching assistant; Classes may include statistical methods, conservation law, habitat management, and other conservation-focused classes across different disciplines. To be successful, students must be confident that they can learn new things to achieve these interdisciplinary objectives. In addition, applicants are expected to have earned a bachelor's degree in marine science, public affairs, public policy, political science, economics, or another social science; biology; ecology; or a relevant field. Students must also have quantitative/statistical skills or a willingness to learn as well as a willingness to implement human surveys of diverse groups of people in person and under difficult conditions (sunny, hot).

If you are interested in relocating to Auburn to begin your program in the spring of 2023 (start date January 11, 2023), please send the following materials to Kelly Dunning at auconservation@gmail.com in a single PDF file: 1) resume/CV (1-2 pages); 2) personal statement (1-2 pages; should include background and why you are interested in this position, how your accomplishments relate to this position, your willingness to pursue an interdisciplinary graduate degree, and your commitment to diversity and inclusion); 3) bachelors transcripts (unofficial is fine at this time); 4) a writing sample (any length/purpose); 5) names and emails for 3 references (these will be contacted only at the interview stage). Although GREs are not required, they will be reviewed if they are included. It is strongly recommended that you apply as soon as possible because interviews may happen on a rolling basis. Individual feedback on applications cannot be provided. Please do not self-select yourself out of applying as there are many ways to acquire skills that will set you up for a successful graduate experience. Diversity and inclusion are a high priority of this lab group; all interested applicants are encouraged to apply, particularly those with a record of service (e.g.

military/reservists, Peace Corps, Americorps) as these experiences are viewed as highly favorable attributes of a candidate.

Auburn University is a very high research activity institution located in a mid-sized city in the foothills of the Appalachian Mountains. Local attractions include farmers markets, Auburn City Fest, and the newly constructed Gouge Performing Arts Center. The nearby Kreher Forest Ecology Preserve and Tuskegee National Forest offer additional recreational opportunities year-round. Successful applicants for this assistantship will be prepared to take on a new research project that combines social science with modeling. For interested students, outreach and science communication opportunities can be made available, in support of the land-grant mission of Auburn University. Graduate students in the College of Forestry, Wildlife, and Environment are provided with a competitive stipend and tuition remission.

Janna Willoughby <jwilloughby@auburn.edu>

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BielefeldU EvolutionaryEcol

The Faculty of Biology, Department of Evolutionary Biology, has the following job opening:

Research Position (PhD candidate) in Chemical Ecology
ID: Wiss22743 - Start: 01.04.2023 - part-time 65 % - salary according to Remuneration level 13 TV-L - fixed-term

The Phd position is part of the "Freigeist" research project "Plasticity-led evolution in the phenotype of a freshwater snail: from the epigenome to genetic change" funded by the Volkswagen-Stiftung. Phenotypic plasticity allows organisms short-term adaptation to environmental changes. Antipredator plasticity, the ability of individuals to plastically respond to the presence of predators with inducible defenses, is one of the best-studied instances of phenotypic plasticity. The freshwater gastropod *Physella acuta*, a simultaneous hermaphrodite, is a well-established model system for antipredator plasticity. While there are numerous different chemical predator-related cues that can induce defenses in this species, little is known about their properties and their chemical identity. The aim is to study behavioral and morphological responses of individuals to different predator-related chemical cues and to use

chromatographic methods so as to reveal the identity of the chemical compounds that induce antipredator plasticity in this model system.

Your Tasks research tasks (95 %): - experimental work with freshwater gastropods - chromatographic analyses - collaboration with other researchers - preparation of contributions for scientific conferences - writing scientific publications for international journals

other tasks (5 %): - organizational tasks within the research group

The employment is designed to encourage further academic qualification

We offer - salary according to Remuneration level 13 TV-L - fixed-term (3 years) (i₂¹ 2 (1) sentence 1 of the WissZeitVG; in accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases) - part-time 65 % - internal and external training opportunities - variety of health, consulting and prevention services - reconcilability of family and work - flexible working hours - job ticket for regional public transport network - supplementary company pension - collegial working environment - open and pleasant working atmosphere - exciting, varied tasks

Your Profile We expect - completed scientific university degree (e. g. Master of Science or equivalent) in evolutionary ecology, chemical ecology, animal ecology, animal behavior or any related field - experience in experimental work with living animals - proven skills in chromatography (flash chromatography, analytical chromatography) or high motivation to rapidly acquire such skills - excellent oral and written English language skills - independent, self-reliant and dedicated style of work - strong organizational and coordination skills - ability to cooperate and work in a team

Preferred experience and skills - experience in chemical ecology - experience with high-performance liquid chromatography/electrospray ionization tandem mass spectrometry as well as with the systems Reveleris X2, MicroTofQ - experience in preparing scientific publications - experience with R - experience with antipredator phenotypic plasticity - experience with alarm cues - experience in working with gastropods or with the model species *Physella acuta*

Application Procedure

We are looking forward to receiving your application. For full consideration, your application should be received via either email (a single PDF document is required) sent to denis.meuthen@uni-bielefeld.de or post (see postal address). Please mark your application with

the identification code: Wiss22743. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. For Information on the processing of personal data click here.

application deadline: 20.10.2022

Contact Dr. Denis Meuthen denis.meuthen@uni-bielefeld.de

Postal Address Universität Bielefeld Faculty of Biology
Dr. Denis Meuthen Postfach 10 01 31 33501 Bielefeld

Dr. Denis Meuthen Freigeist Fellow Bielefeld University Evolutionary Biology Konsequenz 45 D-33615 Bielefeld Germany denis.meuthen@uni-bielefeld.de
https://scholar.google.ca/citations?hl=en&user=lgw8cu4AAAAJ&view_op=list_works&sortby=pubdate Denis Meuthen <denis.meuthen@uni-bielefeld.de>

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

BielefeldU EvolutionaryGenetics

Bielefeld University - The Faculty of Biology, Department of Evolutionary Biology, has the following job opening:

Research Position (PhD candidate) in Evolutionary Genetics ID: Wiss22714 ——— Start: 01.01.2023 ——— part-time 65 % ——— salary according to remuneration level 13 TV-L ——— fixed-term

The PhD position is part of the “Freigeist” research project “Plasticity-led evolution in the phenotype of a freshwater snail: from the epigenome to genetic change” funded by the Volkswagen-Stiftung. Phenotypic plasticity allows organisms short-term adaptation to environmental changes. The epigenetic mechanisms underlying this ability might influence the genome in the long-term. This hypothesis is intended to be tested, using experimental evolution in the freshwater gastropod *Physella acuta* which is a simultaneous hermaphrodite. The aim is to track phenotypes, epigenotypes and genotypes over many generations to gain a better understanding regarding the role of plasticity in the evolutionary process.

Your Tasks research tasks (95 %): ——— experimental work with freshwater gastropods ——— preparation of epigenetic and genetic libraries ——— analysis of epigenetic and genetic data ——— collaboration with other

researchers — preparation of contributions for scientific conferences — writing scientific publications for international journals

other tasks (5 %): — organizational tasks within the research group

The employment is designed to encourage further academic qualification.

We offer — salary according to Remuneration level 13 TV-L — fixed-term (3 years) (§ 2 (1) sentence 1 of the WissZeitVG; in accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases) — part-time 65 % — internal and external training opportunities — variety of health, consulting and prevention services — reconcilability of family and work — flexible working hours — job ticket for regional public transport network — supplementary company pension — collegial working environment — open and pleasant working atmosphere — exciting, varied tasks

Your Profile

We expect — completed scientific university degree (e. g. Master of Science or equivalent) in evolutionary ecology, genetics, epigenetics, bioinformatics or any related field — experience in experimental work with living animals — proven skills in the preparation of genetic and epigenetic libraries as well as in the bioinformatic analysis of epigenetic (ATAC-Seq) and genetic (ddRAD-Seq, whole-genome sequencing) data or high motivation to rapidly acquire such skills — excellent oral and written English language skills — independent, self-reliant and dedicated style of work — strong organizational and coordination skills — ability to cooperate and work in a team

Preferred experience and skills — experience in preparing scientific publications — experience with R — experience with antipredator phenotypic plasticity — experience in working with gastropods or with the model species *Physella acuta*

Application Procedure

We are looking forward to receiving your application. For full consideration, your application should be received via either email (a single PDF document is required) sent to denis.meuthen@uni-bielefeld.de or post (see postal address). Please mark your application with the identification code: Wiss22714. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. For Information on

the processing of personal data click here.

application deadline: 29.09.2022

Contact Dr. Denis Meuthen denis.meuthen@uni-bielefeld.de

Postal Address Universität Bielefeld Faculty of Biology
Dr. Denis Meuthen Postfach 10 01 31 33501 Bielefeld

Dr. Denis Meuthen Freigeist Fellow Bielefeld University Evolutionary Biology Konsequenz 45 D-33615 Bielefeld Germany denis.meuthen@uni-bielefeld.de
https://scholar.google.ca/citations?hl=en&user=lgw8cu4AAAAJ&view_op=list_works&sortby=pubdate “Meuthen, Denis” <denis.meuthen@uni-bielefeld.de>

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BielefeldU FurSealGenomics

3-year PhD position: Genomic analysis of host-microbe interactions in Antarctic fur seals

With Prof Joe Hoffman (Bielefeld University, Germany), Prof Michael Schloter (Technische Universität München, Germany), Dr Jaume Forcada (British Antarctic Survey, UK) and Dr Gábor Á. Czirják (IZW, Germany).

An outstanding opportunity is available for a PhD student to work on the genomic analysis of host-microbe interactions in Antarctic fur seals. The position is available in Joe Hoffman’s research group (www.thehoffmanlab.com) at the Department of Animal Behaviour at Bielefeld University. The project will be co-supervised by Michael Schloter (www.helmholtz-muenchen.de/comi) and carried out in collaboration with Jaume Forcada (<https://www.bas.ac.uk/profile/jfor>) and Gábor Czirják (<https://www.izw-berlin.de/de/gabor-czirjak-de.html>). The PhD studentship is fully funded for three years.

The project. Vertebrates are inhabited by vast numbers of microorganisms that are increasingly emerging as key players in their host’s biology and evolution. These microbial communities carry orders of magnitude more genes than their hosts and support functions that are not encoded in the host’s genome. Consequently, the microbiome is of fundamental importance to host function. This PhD project will combine an outstanding natural system, Antarctic fur seals, with state-of-the-art multi-omics approaches to investigate the structure

and function of the vertebrate gut microbiota and its effects on host fitness in a changing environment. It will use an exceptionally rich and multifaceted dataset to investigate how intrinsic and extrinsic factors influence the structure and function of host-associated microbial communities. From there, it will elucidate the fitness consequences of gut microbes by linking microbial community structure and function to fitness components such as growth, survival and maturation of the immune system. This project will provide multi-layered insights into the importance of host-microbe interactions in a wild vertebrate population that is declining in response to climate change.

Applicant's profile. We seek a bright and highly motivated student who holds a good first degree and an M.Sc. or equivalent in a relevant topic (e.g. microbial ecology, molecular ecology, bioinformatics). The ideal candidate will have some experience of working in a genetics lab as well as strong quantitative skills, including proficiency in working in R and writing custom scripts. Practical experience of working with next generation sequence data would be advantageous, but full training will be provided. The candidate should also be able to work both independently and as part of a team. A high standard of spoken and written English is required.

The working environment. The first 6-9 months of the PhD will be spent learning and implementing laboratory and data analysis workflows in microbiome analysis in Michael Schlöter's group at the Technische Universität München, Germany (www.helmholtz-muenchen.de/comi). The group is one of the leading institutions for microbiome analysis in Germany and has been involved in the development of various national and international SOPs in the field. The group is well equipped with high throughput sequencing instruments for long- and short read, sequencing. Subsequent bioinformatics are done on a 100 knot server, which enables the analysis of metabarcoding as well as metagenomics data. The pre-alpine landscape around Munich makes this area as one of the most attractive ones in Germany.

Afterwards, the PhD student will be based at the Department of Animal Behaviour at Bielefeld University, Germany (www.uni-bielefeld.de/biologie/vhf/index.html). The department is the oldest of its kind in Germany and currently hosts seven principal investigators, nine postdocs and 15 PhD students. It offers a stimulating, supportive and highly international environment as well as an excellent research infrastructure. The working language of the department is English. Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoberger Wald for hiking and other outdoor pursuits. It is an affordable and pleasant city to live in and is well connected to most

major European cities.

The successful applicant will thus benefit from an integrative, multidisciplinary training that will prepare her/him very well for a scientific career in microbial ecology / molecular ecology / conservation science.

Remuneration. This generous PhD studentship is funded by the German

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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>

ColoradoStateU MolecularEvolution

The Sloan Lab at Colorado State University is recruiting a student to join our Ph.D. program beginning in the Fall of 2023. Our lab studies molecular evolution, with a particular focus on cytonuclear interactions, mutation rate evolution, and DNA repair mechanisms in plant systems. We are looking for researchers who are enthusiastic about contributing to a positive and diverse intellectual environment. Students will develop an independent dissertation topic that aligns with general research themes in the lab. More information about our research program is available at our lab website:

<https://sites.google.com/site/danielbsloan/> There are multiple relevant graduate program at CSU, and application deadlines are either December 1 or January 1, depending on the program. Prospective students are strongly encouraged to contact Dan with a CV/Resume and brief description of their interests in grad school and the Sloan Lab.

Dan Sloan Associate Professor Department of Biology Colorado State University

"Sloan,Dan" <Dan.Sloan@colostate.edu>

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George Washington University Evolutionary Biology

The Zhang lab (see <https://linyizhang.weebly.com/-publications.html>) is recruiting for a PhD student position at George Washington University.

The Zhang lab focuses on understanding two fundamental evolutionary processes: adaptation and speciation. To address these questions, we mainly study herbivore insects that specialized on a few host plants including gall-forming insects and *Lycaeides* butterflies. Interdisciplinary approaches are adopted including field surveys, natural history, behavior observation, manipulative experiments, simulations, and genomic techniques.

The successful applicant has the chance to develop their own projects that are within PI's realm of interests in evolutionary biology. Experience in field work, programming language (e.g. R), molecular biology skills (DNA-based lab work), and quantitative analysis are strongly preferred. This position is guaranteed for five years of funding including summer stipends. It consists of two years of TA and three years of fellowship.

Detailed application documents can be found here (<http://bulletin.gwu.edu/arts-sciences/biological-sciences/phd/#admissionstext>).

Prior to applying to the department of Biological Science at GWU, please contact Dr. Zhang at linyizhangecnu@gmail.com. In the email, please include (1) CV, (2) a brief statement describing your interests, research experience, and motivation for joining the lab.

Linyi Zhang

Department of Biological Science

George Washington University

Linyi Zhang <linyizhangecnu@gmail.com>

(to subscribe/unsubscribe the EvoDir send mail to goldring@mcmaster.ca)

IZW Berlin Demographic Modelling

Doctoral/PhD position: 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 aim to develop a new approach to quantify the demographic resilience of wildlife populations to environmental changes.

Deadline to apply September 23.

The selected candidate will develop this method using 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 anthropogenic ones. The candidate will apply capture-mark-recapture models to assess survival and transition probabilities among different states and construct matrix population models. These matrices will then be analysed using techniques from transient dynamics, to assess and compare the demographic resilience of the two spotted hyena populations. This method could potentially be applied to a number of wildlife species for which long-term data sets are available, and could therefore lead to numerous collaborations.

A particularly exciting aspect of the WILDER project is that it will provide excellent opportunities for networking and professional training. The selected doctoral candidate will be mentored by four senior scientists with complementary expertise: Dr Viktoriia Radchuk, Dr Oliver Honer & Dr Sarah Benhaïem from Leibniz IZW and Prof Adam Clark from the University of Graz. The candidate will also collaborate closely with a postdoc (to be recruited) and benefit from interacting with an extended network of international collaborators. Within WILDER we will organise 1) a series of international workshops for early career researchers aimed at improving their quantitative skills, 2) annual retreats to discuss the project with international experts in population biology and 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 network in the fields of wildlife biology and quantitative ecology. The selected candidate will obtain strong quantitative skills,

in particular in statistics, population dynamics modelling and management of large datasets. In addition, the candidate will benefit from a stimulating international research environment at Leibniz-IZW and will join a structured doctoral training programme.

Prerequisites:

Completed university degree (Master of Science or Diploma) in wildlife biology, behavioural ecology, population modelling, ecological modelling or evolutionary ecology; Proficiency in English (oral and written); Good knowledge of R or willingness and ability to quickly learn statistical programming; A solid background in basic statistics; Reliability, high motivation and efficiency; Ability to work both independently and as part of a team.

Beneficial:

Experience in working with individual-based, longitudinal datasets; Field work experience in observing social animals in the wild; Experience in R programming; Experience in fitting capture-mark-recapture models and / or matrix population models; A strong interest in population ecology, behavioural ecology and stability ecology.

The position is expected to start November 1st 2022 and is limited to three years. Salary and benefits will be according to TVi₂ D Bund (65 %).

Place of work is at the Leibniz-IZW premises at Alfred-Kowalke-Str. 17, 10315 Berlin, Germany. The Leibniz Institute for Zoo and Wildlife Research (IZW) in Berlin is Germany's premier wildlife research institute, one of seven research institutes in the Forschungsverbund Berlin e. V., a member of the Leibniz Association and jointly funded by the German federal and state governments. The IZW focuses on the life histories and mechanisms of evolutionary adaptations of mammals and birds, their limits and their conservation in natural and anthropogenically influenced environments. The institute operates within the fields of evolutionary ecology, ecological dynamics, evolutionary genetics, wildlife diseases, reproduction biology and reproduction management.

The candidate will join the Departments of Ecological Dynamics and Evolutionary Ecology of the Leibniz-IZW.

As a member of the Leibniz Association, the Leibniz-IZW is an equal opportunity employer, determined to increase the proportion of women in successful scientific careers, and particularly encourages women to apply. We welcome applications regardless of gender, origin, sexual orientation and religion; all applicants have equal opportunities. Preference will be given to disabled ap-

plicants with the same qualifications.

Enquiries or further questions should be directed to Dr Viktoriia Radchuk

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LeibnizInstBiodiversity Bonn BeeGenomics

PhD position. Interested to work with genomes and study recurrent phenotypic loss across bee lineages, gene loss and regulatory evolution? Come work with us at the Leibniz Institute for Biodiversity Change (LIB) in Bonn/Germany and join the DFG funded GEvol priority program.

- PhD position, 3 years, Leibniz Institute for the Analysis of Biodiversity Change (LIB) in Bonn, Germany - Deadline 11.09.2022 - start earliest 01.10.2022, later is possible - full ad here: <https://tinyurl.com/2byje4bc> - apply online via JobPortal: <https://bonn.leibniz-lib.de/de/job-portal> or <https://leibniz-lib.de/karriere/> - application (english) as single PDF with Cover/Motivation letter, CV, degrees and contact information to 1-3 references

- DFG funded project “Recurring phenotypic loss: Repeatability of genome and regulatory evolution” - bee genomes, phenotypic evolution/loss, social and cleptoparasitism, comparative genomics and regulatory evolution, integrated with developmental genomics/regulation - Comparative Genomics group of Dr. Eckart Stolle, collaboration with Katja Nowick @ FU Berlin, Benjamin Wipfler @LIB and Joe Colgan @ JGU Mainz) - part of the DFG priority program GEvol, SPP 2349 https://twitter.com/SPP_GEvol We will study the evolution of pollination morphostructures in bees and their repeated loss using a multi-OMICs comparative approach. The project involves genome assembly and annotation of dozens of bee species, population and comparative genomics. The focus will be on the genomic basis of recurrent phenotypic loss, i.e. gene and regulatory element loss, gene family expansions and contractions, as well as genome evolution and changes in natural selection pressures, integrating genomic and developmental information. This project is a tandem

project with a second PhD project in the group of Prof. Katja Nowick (FU Berlin) which focusses on the developmental transcriptomics and epigenomics as well as regulatory evolution. Both tandem projects with be tightly interlinked and highly collaborative. Further collaborations involve the morphology laboratory (Dr. Benjamin Wipfler, LIB) and the Social insect evolution group at the Johannes Gutenberg University Mainz (Dr. Thomas Joseph Colgan). The tandem project is part of a multi-team program across Germany focusing on genetic innovation in insects, the DFG priority program GEvol (<http://www.g-evol.com>). This project will be part of a multi-team program across Germany focusing on genetic innovation in insects (<http://www.g-evol.com>). 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 by comparative genomics. This DFG priority programme project offers excellent opportunities for collaboration and networking with leading institutes in evolutionary biology. The project is computational-biology-heavy, but includes also some field work (sampling) and wet-lab work (e.g. DNA/RNA extractions, NGS library preparation) for which training will be provided.

You should have a graduate academic university degree (Master or equivalent) in natural sciences with a background in genomics, molecular ecology, bioinformatics / computational biology, entomology and/or related disciplines. You should have a strong interest to work in an international and interdisciplinary team and therefore have a good knowledge of English. Since the project is computation-heavy, previous knowledge of command-line (Linux) and/or R is required. Practical experience in NGS sequencing/ sequence analysis, genome comparison, molecular evolution or population genetics, but also molecular biology (wet-lab) and entomology (e.g. sampling) would be an advantage. Training for specific approaches will be given. You should be familiar with the major concepts of evolutionary and population genomics.

Project lead: Dr. Eckart Stolle, LIB Bonn, e.stolle@leibniz-lib.de

Stiftung Leibniz-Institut zur Analyse des Biodiversitätswandel Postanschrift: Adenauerallee 127, 53113 Bonn, Germany

Stiftung des öffentlichen Rechts; Generaldirektion: Prof. Dr. Bernhard Misof (Generaldirektor), Adrian Gräter (Kaufm. Geschäftsführer) Sitz der Stiftung: Adenauerallee 160 in Bonn Vorsitzender des Stiftungsrates: Dr. Michael Wappelhörst

Eckart Stolle <E.Stolle@leibniz-lib.de>

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LMU Munich PlantPhylogenomics

The chair of Systematics, Biodiversity & Evolution of Plants at the faculty of Biology of the Ludwig-Maximilians-University Munich is offering a PhD position in the framework of the project entitled “Herbarium-based phylogenomics of *Astragalus* (Fabaceae)” lead by Dr. Diego Morales-Briones and Prof. Gudrun Kadereit and in cooperation with Prof. Shahin Zarre, University of Teheran, Iran.

PhD position: TVL-E13, 65% - for 3 years (open from 1st of January 2023)

Phylogeny, systematics, and evolution of *Astragalus* (Fabaceae)

The project entails a phylogenomic study of *Astragalus* (Fabaceae), the most species-rich genus of flowering plants, using DNA sequence data generated by a clade-specific bait set for target enrichment (Hyb-Seq) from the vast and unique collection of *Astragalus* from the Munich Herbaria (Botanical State collection of Bavaria, M and MSB). The PhD project will focus on the Old World *Astragalus* in general and in clades of interest within this group. We are seeking a candidate interested in plant systematics, evolution, diversification, adaptation, or biogeography with a Master of Science degree in Biology (or related) and a background in botany, molecular phylogenetics, or evolution. Experience with analysis of high-throughput sequence data, phylogenomics, trait evolution, or biogeography are beneficial but not essential. Good English language skills are required.

The workplace is the Prinzessin Therese von Bayern chair of Systematics, Biodiversity and Evolution of Plants at the LMU Munich (Menzingerstrasse 67, 80638 Munich, Germany; <http://www.sysbot.biologie.uni-muenchen.de/>) which is closely associated with the Botanical Garden Munich - Nymphenburg and the Botanical State collection of Bavaria with the Herbaria M and MSB.

Please submit the following (in English): - Short Cover/Motivation letter - CV (incl. list of publications and the names of one or two references) - Copy of certificates

The submission deadline is October 31st 2022 Please send your application per email (in one PDF, max. 5MB)

to d.morales@lmu.de

The Ludwig-Maximilians-University Munich is an equal opportunities employer and particularly encourages applications from women who are under-represented in the University at this level/ in this discipline. Additionally, handicapped applicants will be preferred if equally qualified.

Diego F. Morales-Briones Ludwig-Maximilians-Universität München Fakultät für Biologie | Systematik, Biodiversität & Evolution der Pflanzen Menzinger Str. 67, 80638 München

“Diego F. Morales-Briones” <D.Morales@lmu.de>

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Northern Arizona U Phylogenomics Biogeography

The Northern Arizona Insect Lab of Systematics (NAILS) at Northern Arizona University (NAU) (<http://www.gustafsonlab.org/>) is recruiting two Ph.D. students to begin Fall 2023. These positions come with three full years of Research Assistantship support. Funding for these positions comes from a recently awarded NSF grant (NSF DEB# 2208620) to study the phylogeny and biogeography of the tiger beetle tribe Manticorini. One of the positions will be focused on the genus *Omus*, the night-stalking tiger beetles, and the other on *Amblycheila*, the giant tiger beetles of North America. Both projects will involve phylogenomic analysis of ultra-conserved elements (UCEs) to look at population-level differences for species delimitation and reconstructing historical biogeography. They will also both involve extensive fieldwork.

If you are interested in investigating (1) a potential ring species around the Central Valley of California; (2) biogeography of the Coastal Ranges of California and the Cascades of Oregon and Washington; and (3) enjoy a major taxonomic challenge, the *Omus* position is for you!

If you are interested in investigating (1) niche reconstruction and the role of climate change in driving species distributions historically and in the future; (2) biogeography of the Madrean Sky Islands of southeastern Arizona; and (3) enjoy collecting throughout the Southwest, the *Amblycheila* position is for you!

–Required qualifications–

1. A Bachelor’s degree in biology or a subfield of biology
2. Experience conducting fieldwork
3. Some background knowledge in biological systematics (e.g., classes or prior research)

–Preferred qualifications–

1. A Master’s degree in biology, or a subfield of biology – particularly entomology
2. Experience with molecular lab work – particularly DNA extractions and preparing samples for high-throughput sequencing
3. Experience conducting fieldwork in the focal regions for the project

Applications for admission to graduate school for Fall 2023 are due December 2nd 2022 for full priority and February 15th 2023 at the latest. NAU has a set stipend for all Ph.D. positions that is currently \$20,000 on a 9 month basis. The positions advertised here come with an additional \$8,000 of funding for three summer semesters bringing the total stipend to \$28,000 per year for three years. Teaching Assistantships are routinely available to extend support.

If you are interested in applying, contact Grey Gustafson via email at Grey.Gustafson@nau.edu.

Please provide in the initial email the subject of \hat{A} Ph.D. student application and

1. A one-page statement of interest that summarizes your academic background, qualifications (see above), and interest in either or both of the advertised positions.
2. Your current C.V.

For information about the Dept. of Biological Sciences at NAU visit (<https://nau.edu/biological-sciences/>)

Grey Gustafson, Ph.D. Asst. Prof. \hat{A} $\frac{1}{2}$ Dept. of Biological Sciences Curator \hat{A} $\frac{1}{2}$ NAU Arthropod Collection Principle Investigator \hat{A} $\frac{1}{2}$ NAILS Northern Arizona University 617 S Beaver St Flagstaff, AZ 86011 website: <http://www.gustafsonlab.org/> Grey T Gustafson <Grey.Gustafson@nau.edu>

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NorthernIllinoisU EvolBiol

The Ecology, Evolution, Behavior, and Conservation faculty in the Department of Biological Sciences at Northern Illinois University are seeking applicants to the M.S. and Ph.D. graduate programs starting Fall 2023.

Research interests among the faculty are diverse and include community ecology, restoration ecology, conservation genetics, vertebrate and invertebrate evolution, behavioral ecology, and microbial ecology.

EEBC faculty that are taking graduate students for Fall 2023 are:

-Jennifer A.H. Koop, ecology and evolution of host-parasite interactions; invasion biology; population genetics : <https://jenniferkoop.weebly.com/> -Karen E. Samonds, paleontology, skeletal biology and paleobiogeography: <http://www.sadabe.org/Samonds/Index.html> -Wesley D. Swingley, environmental microbiology, extreme ecosystems, and astrobiology: <https://wswingley.wixsite.com/labsite> Details of the graduate program and application process are available at <https://www.niu.edu/clas/biology/academics/graduate-studies/index.shtml> .The department offers teaching assistantships including stipend and tuition waiver, on a competitive basis. The deadline for application materials is January 1, 2023. However, prospective students should contact potential faculty advisors well in advance of applying to discuss research interests and relevant qualifications.

Northern Illinois University is a 17,000-student research university situated an hour from downtown Chicago in DeKalb, Illinois, a diverse community of 50,000 with a low cost of living. Regional research resources include The Field Museum, Burpee Museum of Natural History, Nachusa Grasslands, Morton Arboretum, Fermilab, Argonne National Laboratory, the NIU Lorado Taft campus, and numerous local county forest preserves and state parks.

Jennifer Koop <jkoop@niu.edu>

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Porto Chicago Brno DesertRodentEvolution

Project title: Phylogenomics and evolution of speciose desert rodents (genera: Gerbillus)

We are looking for an enthusiastic student / researcher to join project and expeditions to the Sahara to collect data and accomplish research / PhD thesis. The selected candidate will apply with the team for an independent research position / PhD scholarship. Several financing opportunities exist within the supervisor team institutions (see below).

Ongoing climate change, and extreme weather events, raised concern for species survival throughout the world. Some organisms have long coped with those problems, by adapting to new conditions and seeking shelter in suitable patchy areas. Therefore a promising approach to predict the future of the species is to first reconstruct its evolutionary past. North Africa has been exposed to frequent, and repeated, climatic oscillations. Therefore, the Sahara desert can serve as a laboratory to study how species respond to climate change and extreme conditions. We study speciose Gerbillus rodents (estimated > 50 species) that inhabit arid habitats and deserts. Due to remoteness of the area evolutionary history and ecology of Saharan inhabitants has been rarely studied. Our previous research showed high cryptic diversity within Gerbillus rodents, and suggested ecological processes involved in diversification.

With field work in remote and distinct geographic locations, expected to host endemic and rare lineages and species, and sequencing of historical museum samples, this project aims in reconstructing phylogenetic history (phylogenomics) to study biogeography and mechanisms of diversification in harsh and fluctuating desert conditions.

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

Team: Zbyszek Boratyński (boratyns@cibio.up.pt, <https://boratyns.wixsite.com/zbyszek>), BIOPOLIS, CIBIO/InBio, Research Center in Biodiversity & Genetic Resources, University of Porto, Portugal Molly McDonough (mollymcdonough@gmail.com, <https://www.researchgate.net/profile/Molly-McDonough-2>), Chicago State University, Field Museum of Natural

History and National Museum of Natural History, Smithsonian Institution, USA Josef Bryja (bryja@ivb.cz, <https://www.ivb.cz/en/person/josef-bryja/>), Institute of Vertebrate Biology, Czech Academy of Sciences, Department of Botany and Zoology, Faculty of Science, Masaryk University, Czech Republic

Financing opportunities: Fellowship / contract throughout FCT foundation: <https://www.fct.pt/> PhD scholarship at the Masaryk University (Brno, Czech Republic): <https://www.muni.cz/en> PhD Biodiv studentship: <https://www.biodiv.pt/en/> References: Bryja et al. 2022. Rodents of the Afar Triangle (Ethiopia): geographical isolation causes high level of endemism. Biodivers Conserv, 10.1007/s10531-022-02354-4 Boratyński et al. 2017. Repeated evolution of camouflage in speciose desert rodents. Sci Rep, 10.1038/s41598-017-03444-y Ndiaye et al. 2016. Evolutionary systematics and biogeography of the arid habitat adapted rodent genus *Gerbillus* (Rodentia, Muridae): a mostly Pleistocene African history. J Zool Syst Evol, 10.1111/jzs.12143 Ndiaye et al. 2016. Taxonomic hypotheses regarding the genus *Gerbillus* (Rodentia, Muridae, Gerbillinae) based on molecular analyses of museum specimens. ZooKeys, 10.3897/zookeys.566.7317 Zbyszek Boratyński <boratyns@gmail.com>

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RiceU EcologyAndEvolution

The Graduate Program in Ecology and Evolutionary Biology in the Department of BioSciences at Rice University invites applications for admission into our PhD program. The department is home to a vibrant community of faculty, postdoctoral, graduate, and undergraduate scholars in ecology and evolution. Our program has particular strengths in population and community ecology, behavioral ecology, conservation biology, evolutionary ecology, speciation, and evolutionary genetics and genomics. Our program includes minimum coursework and low teaching requirements so that students can focus on developing independent, cutting-edge research programs.

We are located in Houston, Texas, an exciting, diverse, and affordable city with world-class opportunities for dining, arts, and entertainment and easy access to di-

verse terrestrial and aquatic environments. Rice is located beside one of the country's largest medical research centers, providing additional opportunities in bioinformatics, genomics, and translational research. Rice is one of the most diverse campuses in the US; our university and department are committed to recruiting and supporting diverse scientists at all levels, especially those from marginalized groups.

Completed applications should be received by December 31 to ensure full consideration. Submission of GRE scores is optional. There is no application fee for US citizens and permanent residents. Complete information about the graduate program, including application instructions, may be found at <https://biosciences.rice.edu/how-apply-eeb>. Prospective applicants are encouraged to contact potential faculty advisors before applying. A full list of EEB program faculty can be found here; in particular, the following labs are actively recruiting new PhD students to start in fall 2023:

The Beaudrot lab works at the interface of community ecology, macroecology and conservation biology with a particular focus on tropical forest systems and especially on mammals. We are interested in variation in food webs over space and time, tropical vertebrate responses to global change, and determinants of tropical mammal and bird community composition.

The Evans lab is looking to recruit 1-2 PhD students who are interested in how complex traits evolve across space and time in vertebrates. The Evans lab specializes in the study of phenotypic evolution in fishes with a particular emphasis on the skull and the factors that influence its evolution and development.

The McCary lab is looking to recruit 1-2 PhD students who are interested in understanding how global change impacts insect communities. The McCary lab uses an integrative approach, including experiments, modeling, meta-analyses, and molecular techniques.

The Miller lab studies the spatial and temporal dynamics of natural populations by combining theory, data, and statistics. We are particularly interested in how species interactions influence patterns of distribution and abundance. Most of our work is focused on plants and their interactions with mutualists, competitors, and consumers.

The Saltz lab seeks a PhD student who is interested in the quantitative and evolutionary genetics of social behaviors. We use fruit flies as a model system to test hypotheses about how behavior evolves. We are a highly collaborative group guided by our lab values.

Julia B. Saltz

Associate Professor Biosciences at Rice University lab
website: Saltzlab.com

twitter: @julia_saltz pronouns: she/her

Julia Saltz <julia.b.saltz@rice.edu>

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ing@mcmaster.ca)

South Africa Germany Marine Metabarcoding Genomics

PhD position in metabarcoding and population genomics of South African microbialite communities (bacteria, microalgae and metazoans)

The SSLiME (Supratidal Spring-fed Living Microbialite Ecosystems) consortium invites applications for a PhD position in marine metabarcoding and population genomics. The position is part of the project “Hydrological and geobiological drivers of modern supratidal microbialite connectivity and formation”, and is fully funded by the German Research Foundation (DFG). Collaborating institutions include the Helmholtz Institute for Functional Marine Biodiversity at the University of Oldenburg (HIFMB) and Alfred Wegener Institute, Helmholtz-Centre for Polar and Marine Research (AWI) (Germany), the Institute for Coastal and Marine Research (CMR) at Nelson Mandela University (South Africa) and the Centre for Ecological Genomics and Wildlife Conservation in Johannesburg (South Africa).

This is a full-time position limited to 3 years. Candidates will be based at Nelson Mandela University (NMU) in Gqeberha, South Africa (where the microbialite formations to be studied are located), but are expected to spend research time in Germany. Gqeberha (formerly Port Elizabeth) is a vibrant city on South Africa’s warm temperate Indian Ocean south coast, and candidates will benefit from interacting with marine scientists from numerous disciplines at NMU’s recently established Ocean Sciences Campus. The scholarship is R175,000 per annum (approximately euro 10300 p/a). South Africa has a comparatively low cost of living (https://www.numbeo.com/cost-of-living/country_result.jsp?country=South+Africa), and this amount exceeds that of PhD bursaries paid by South Africa’s National Research Foundation. In addition, top-up funding is available for excellent performance (papers published).

Background Microbialites (or stromatolites) are the oldest commensal lifeform on Earth, appearing regularly in the fossil record back to 3.45 billion years. Although rare on modern coasts, when conditions are right, these communities built by bacteria and algae may still form today in the face of much more advanced competitors. Recent research conducted in South Africa suggests that instead of destroying them, modern metazoan fauna can co-exist with microbialite formations. Together, they create unique but poorly understood coastal habitats.

Research questions on the topic of biodiversity across taxa and trophic levels (bacteria, microalgae, metazoans) as well as biological connectivity of modern supratidal microbialite pools will be tackled by comparing community- and population-level similarities across the network of microbialite-forming pools along the South African coast, as well as adjacent estuaries (as much of the metazoan fauna seems to be identical to, or derived from, estuaries). It addresses whether the drivers of biological similarities between the supratidal microbialite pool communities are spatial (i.e., a function of proximity to one another) or geographical (i.e. a function of habitat continuity or discreteness).

Tasks The methods to be applied include metabarcoding of environmental DNA (eDNA) samples from sediment and water, and shallow whole genome sequencing of key species from different taxonomic groups. The PhD candidate will collaborate closely with an international and interdisciplinary team, and a promising candidate can thus expect strong support from a team of experts. Tasks include: - Sampling and processing of eDNA (extracted from sediment and water) and individual species (e.g. individually collected metazoans, or microalgal cultures) with the assistance of local experts - Molecular genetic analyses (DNA barcoding, metabarcoding, whole genome sequencing) - Bioinformatic and statistical analysis of sequence data - Participation in, and, if necessary, organization of project meetings - Preparation of project reports and publication of results

Requirements The following requirements are highly desirable, and the selection of the most suitable candidate depends on how many of them apply: - A Masters degree (or equivalent pre-PhD qualification) in environmental/natural sciences, medicine or a related discipline - Experience with field sampling and, preferably, sampling of eDNA - Experience in molecular genetic analysis using unix/linux-based approaches (metabarcoding, metagenomics, RADseq/GBS or whole genome sequencing data) - Strong bioinformatics and statistical expertise - Availability for an international research stay for sample analysis - Good communication and English language skills - Publications, preferably as first author, published exclusively in accredited scientific journals

only (ISI, Scopus or DOAJ).

We offer - Pioneer work on a novel and recently discovered study system that is as yet poorly understood, with results that are of great interest to the

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StockholmU MammothGenomics

PhD STUDENT POSITION

- Palaeogenomics of speciation, adaptive evolution and extinction in the woolly mammoth
- Based at the Centre for Palaeogenetics and Department of Zoology (Stockholm University)
- Subject area: Population genetics
- Application deadline: 1 October 2022

PROJECT DESCRIPTION

The Department of Zoology invites applications for a four-year PhD position based at the Centre for Palaeogenetics in Stockholm. The project is aimed at investigating speciation, adaptive evolution and extinction in the woolly mammoth. The analyses will use state-of-the-art genomic methods, and will focus on ancient DNA analyses on remains sampled across the last million years (i.e. throughout the woolly mammoth's entire existence). The PhD project is part of the DeepTime Genomics research programme funded by the Swedish Research Council and an ERC-AdG grant, with the goal to investigate evolutionary processes such as speciation, adaptation and hybridization and how these relate to past environmental change. The PhD student will join the research group led by Love Dalén (see www.palaeogenetics.com/ld) at the Centre for Palaeogenetics located on the Stockholm University campus.

SELECTION CRITERIA

The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative, and independence. The

assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position. In addition, experience in population genetics, bioinformatics and laboratory DNA analysis are important qualifications. For complete information on the qualification requirements, please see the full advertisement (link below).

RESEARCH ENVIRONMENT

The PhD student will be based at the Centre for Palaeogenetics (CPG) in Stockholm, which is a newly established research centre with state-of-the-art laboratory facilities and modern offices and meeting areas. CPG is jointly funded by Stockholm University and the Swedish Museum of Natural History. The centre is a multidisciplinary research environment with staff from departments in biology, archaeology, and geology, who are all dedicated to analyses of ancient and modern DNA to investigate questions on prehistory. CPG has a staff of 30 persons, including 11 PhD students and 5 post-docs. It is an international workplace, with the current staff coming from 13 different countries. Located on the Stockholm University campus, CPG is part of a vibrant genomics community in Stockholm, by many considered one of the most beautiful cities in the world.

HOW TO APPLY

Apply for the PhD student position using Stockholm University's recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the advertisement, and that it is submitted before the deadline.

LINK TO RECRUITMENT SYSTEM

<https://www.su.se/english/about-the-university/work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=18646&rmlang=UK>

Stockholm University contributes to the development of sustainable democratic society through knowledge, enlightenment and the pursuit of truth.

Love Dalén <love.dalen@zoologi.su.se>

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TempleU Two InvasionBiology

The Integrative Ecology Lab < <https://www.iecolab.org/> > at Temple University has two PhD student positions available for Fall 2023 to work on our invasive spotted lanternfly project. These positions will provide students with the exciting opportunity to work in the epicenter of a recent invasion using combinations of field research, data science, and statistical modeling methods.

The two positions are: PhD in invasion ecology and habitat selection ecology (working with Dr. Jocelyn Behm)

PhD in invasion ecology under climate change (working with Dr. Matt Helmus)

Please visit this website for more information: <https://www.iecolab.org/blog/2022/09/phd-positions-in-invasion-ecology/> Jocelyn E. Behm, Ph.D. (she/her/hers)

Assistant Professor - Integrative Ecology Lab < <http://www.iecolab.org/> > Center for Biodiversity

Department of Biology

Temple University 1925 N. 12th St. Philadelphia, PA 19122 scholar < <https://scholar.google.com/citations?user=rYki1w4AAAAJ&hl=en> > facebook < <https://www.facebook.com/IntegrativeEcology/> > Instagram < <https://www.instagram.com/integrative.ecology/> >

P: 215-204-3241 F: 215-204-2121

Jocelyn Behm <jocelyn.behm@temple.edu>

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TrentU CaribouConservationGenomics

PDF & PhD Positions in Caribou Conservation Genomics

Supported by Genome Canada and NSERC Alliance,

Dr. Paul Wilson (Trent) and Dr. Micheline Manseau (ECCC, Trent) through EcoGenomics (ecogenomic-scanada.ca) are recruiting PhDs and Post-doctoral Fellows (PDFs) focusing on caribou conservation.

Project opportunities include studying caribou ecotypes in Ontario's Ring-of-Fire region; the adaptive genomics of caribou including climate change and rapidly evolving genes; genomic erosion in isolated caribou populations (natural and captive) and at the southern range margins of boreal caribou; landscape genomics of Mountain caribou in the Northwest Territories and the Yukon; ancient DNA; and a comparison of caribou across the boreal range.

The national network supporting these positions include partnerships with Environment & Climate Change Canada (ECCC); Canadian Wildlife Service (CWS); Parks Canada; the Ontario Ministry of Natural Resources & Forestry (OMNRF), and other provincial (e.g. Alberta, British Columbia, Manitoba, Saskatchewan) and territorial jurisdictions (Northwest Territories, Yukon, Nunavut); wildlife management boards and Indigenous communities (e.g. the Sahtu Wildlife Management Board); and industry such as MB Hydro. Field work and partnership placement opportunities are available.

Positions may be based out of Peterborough, Ontario at Trent University or Ottawa at the National Wildlife Research Centre, Environment & Climate Change Canada (ECCC).

One or more of the following will be considered assets: 1. Bioinformatics and computational biology; 2. Molecular genomic protocols; and 3. Estimation of demographic parameters using spatial capture-recapture (sCR); density estimation; population modelling; and network analyses.

PDF salaries are \$55,000 - \$60,000 per year including benefits, with positions ranging up to 2-3 years. Competitive PhD stipends will be provided.

Send a Cover Letter and CV to: Dr. Paul Wilson pawilson@trentu.ca Dr. Micheline Manseau micheline.manseau@ec.gc.ca

Bridget Redquest <bridgetredquest@trentu.ca>

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UBern CichlidBrainEvolution

Doctoral Research Associate position (100 % or 4 years) starting 1 Nov 2022 Dr. Zegni Triki, Ambizione fellow of the Swiss Science Foundation at the institute of ecology and evolution, University of Bern in Switzerland, is offering a fixed-term full-time (100%) PhD position for four years to work on the costs of developing complex brains and their cognitive benefits in a cichlid fish. The full-time occupancy salary is according to the Swiss National Science Foundation and the University of Bern guidelines.

As the main component of the nervous system, the brain is the centre of information perception, processing, storage, and decision-making. Comparative studies have shown a strong positive link between cognitive performance and indicators of brain complexity (e.g., brain size, brain part sizes, neuron counts, and brain activity). However, growing and maintaining neural tissue is energetically costly, and it is thus constrained by the individual's total energy budget. Researchers have suggested a potential existence of an energy trade-off manifested by a selective energy investment in the brain. Although studies on the expensive tissue hypothesis have made a tremendous contribution to our understanding of the evolutionary forces of brain expansion by comparing different species, little is known about how the hypothesis applies within species. The PhD student will design and run experiments in the lab and potentially in the field (Lake Tanganyika) on the cichlid fish *Neolamprologus pulcher* to further our understanding of the underlying mechanisms affecting cognitive performance by focusing on ontogenetic effects on individuals.

We are looking for a highly-motivated student with a strong interest in interdisciplinary work. Applicants should have a Masters' degree in biology, or equivalent. In addition, a background and ideally some experience with laboratory experiments (if possible with fish), physiology, and the ability to ensure the well-being of studied animals, are highly preferable.

Applicants should have excellent communication skills and be able to work independently and as part of a team. The working language of the Institute and the lab is English; therefore, good proficiency in spoken and written English is a requirement. Also, the applicant should have some experience with statistical data analyses using programming languages like R.

Are you interested? We look forward to receiving your application, written in English, in one single PDF file. The deadline is 20th September 2022, but the position will stay open until filled. Applications in electronic form or requests for further information should be sent to Dr. Zegni Triki, email: zegni.triki@gmail.com

Applications should include: (1) a cover letter with a statement of research interests and motivation (max. 2 pages), (2) a CV including details about research experience and publications (if any. Preprints are also accepted), with contact details for at least three referees, and (3) the masters' thesis manuscript (if not already published); if the thesis is not in English, please add a summary in English (1 page maximum).

Successful applicants will be invited to meet and discuss with the group. The earliest possible start date is 1 November 2022.

Zegni Triki <zegni.triki@zoologi.su.se>

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UBritishColumbia MolecEcolPopGenomics

I am looking for an MSc student to join my research team at The University of British Columbia (Okanagan Campus) to take part in a study of movement ecology and mating system of Galapagos giant tortoises, which will involve population genomics for SNP marker discovery and panel development. This opportunity recently emerged and I am hoping to find a highly motivated graduate student to join the project in May 2023. The project offers opportunities for both laboratory and field-based research, and direct collaboration with researchers and managers from government and participating organizations. Individuals with a population genetics background, bioinformatics experience and strong analytical skills are especially encouraged to apply.

Visit the Ecological and Conservation Genomics laboratory website (<https://blogs.ubc.ca/russellolab/>) for more information on our current research directions. Additional information about our Biology graduate program at UBC can be found at the following website: <http://biol.ok.ubc.ca/graduate/biology.html> . To apply, send me via e-mail (michael.russello@ubc.ca) a CV, unofficial transcripts, and contact information for at least

two references.

Dr. Michael Russello Professor, Population and Conservation Genomics The University of British Columbia, Okanagan Campus Department of Biology 3247 University Way, FIP346 Kelowna, BC Canada V1V 1V7 michael.russello@ubc.ca

“Russello, Michael” <michael.russello@ubc.ca>

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UCCork SalmonEvolution

PhD student position in fish evolutionary ecology (UCC, Ireland): Linking microevolutionary dynamics of Atlantic salmon to multiple anthropogenic stressors including climate change

We seek a highly motivated graduate who wants to gain a PhD in the area of evolutionary ecology, working in collaboration with scientists at University College Cork (UCC), the Marine Institute of Ireland and Atlantic Technological University (ATU). This 4-year position is funded through a Science Foundation Ireland/Ireland Research Council Pathway grant (<https://tinyurl.com/SFIIRCEvodyngaas>).

Anthropogenic pressures can dramatically alter the demography and phenotypic composition of natural populations. Evolutionary dynamics can also be affected, but we currently lack understanding of patterns and drivers of contemporary evolution. The objective of the research programme is to understand the complex processes of adaptation to anthropogenic impacts in the Atlantic salmon (*Salmo salar*). The specific aims are to (1) evaluate the contribution of climate to historical population-level genetic and demographic changes in freshwater and marine environments and (2) assess the scope for evolution of ecologically relevant traits. Using ecological genomics and quantitative genetics on a six-decade long sampling programme on migrating Atlantic salmon in Ireland, we aim to provide insights into Atlantic salmon capacity to respond evolutionarily to environmental change, providing a basis for comprehensive advice for future conservation and management.

The successful candidate will have the opportunity to be involved in population genetics, landscape genomics and quantitative genetics. The successful candidate will be registered as a full-time research student in the School of Biological, Earth & Environmental Sciences at UCC,

under the supervision of Dr Joshka Kaufmann, Dr Russell Poole (Marine Institute), Dr Thomas Reed and Prof Phil McGinnity (UCC). University College Cork and particularly the school of BEES are committed to advance and apply our understanding of the natural world through excellence in research, teaching and innovation. The research team is part of a growing team of salmonid researchers, with a broad network of collaborators across academic and governmental institutions in Ireland and abroad (<https://fisheye.ucc.ie>).

The successful candidate will be primarily based at the Marine Institute Newport research station in Newport, Co. Mayo, Ireland. The Marine Institute Newport research station is an international index site for diadromous fish, and a world leader in the use of in-situ automated monitoring systems to track changes in freshwater systems. Situated on the west coast of Ireland, Newport lies between the vibrant town of Westport and the Wild Nephin national park. Candidates should possess at minimum a 2.1 BSc (Hons) degree (or equivalent) in a relevant discipline (e.g. Ecology, Evolution, Zoology, Genetics). Applicants must be self-motivated with good communication, organisational and writing skills. Fluency in English (especially for oral communication and paper writing) is required. Experience working with quantitative biology would be advantageous but not essential; as would molecular laboratory and/or bioinformatics skills. Programming skills in using R, Perl or Python is a plus. A driving license is recommended.

Remuneration: This position covers an amount equivalent to fee rates plus a tax-free stipend of E18,500 p.a.

To apply please send by email a CV, details of two referees, and an accompanying letter of application outlining your relevant experience and why you want to do this studentship to Dr Joshka Kaufmann (joshka.kaufmann@marine.ie)

Dates: Application deadline is 21st October 2022. Start date January 2023.

Joshka Kaufmann <Joshka.Kaufmann@Marine.ie>

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UEdinburgh PopGenetics

PhD Position available at the Institute of Ecology and Evolution, University of Edinburgh, UK.

Rethinking evolution in self-fertilising species. Supervisors: Matthew Hartfield, Konrad Lohse.

A major goal of evolution is to understand how selection acts in the genome. Many species reproduce via self-fertilisation, where individuals produce both male and female gametes that can be used to produce offspring. Although there are many classic expectations on how selfing species evolve, these ideas are being challenged by emerging population genomic data from selfing organisms that have revealed unusual patterns of genetic diversity and evolution. As a PhD student, you will have the opportunity to develop novel computational methods to understand fundamental evolutionary phenomena, and use the results to make inferences from big genomic datasets, especially those from *Caenorhabditis nematodes* and self-fertilising plants.

Further information and application instructions: <https://www.findaphd.com/phds/project/rethinking-evolution-in-self-fertilising-species/?p146811> This is a 4 year fully funded PhD project at UKRI stipend level with a start date of 1st January 2023. This opportunity is open to UK and International students and provides funding to cover stipend and tuition fees.

Deadline 31st October 2022 with an expected start date of January 2023. Interested applicants can get in contact to discuss further.

Matthew Hartfield m.hartfield@ed.ac.uk <https://matthartfield.wordpress.com> The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'Àin Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

Uillinois UrbanaChampaign InsectWingsSystematics

The lab of Dominic Evangelista (see roachbrain.com) is recruiting for a PhD student position at the University of Illinois Urbana-Champaign.

The successful applicant will be part of an NSF funded project investigating the evolution of wings in Blattodea (cockroaches and termites) and other insects. The PhD student working on this project will do research on one or more aspects of this project for their thesis, potentially including: i. Detailed morphological analysis of wings among distantly related taxa, including fossil taxa ii. DNA sequencing, and bioinformatics for the

purpose of phylogenetic reconstruction and divergence dating iii. Comparative phylogenetic methods for assessing the relationship between ancestral states and other evolutionary dynamics (e.g., diversification rate) iv. Behavioral experiments to ascertain functional aspects of wings

As part of the funded project, the hired student will have additional opportunities for teaching, science outreach, and field work. Participating in the lab offers opportunities for collaboration with scientists/students at other institutions, and working on social justice research relevant to entomology (see EntoPOC.org).

Note that, as a PhD student, the exact specifications of your project will be an ongoing negotiation between you, your research mentor(s), and your graduate committee. Project aims are subject to future changes based on your needs/interests and the needs of your research mentor.

–Minimum Qualifications–

Education -Bachelors degree -Masters degree in biology or a related field

Minimum GPA of 3.0 (A = 4.0) for the last 2 years of bachelor's degree work and a minimum GPA of 3.0 for previous graduate degree work. Applicants will have separate GPAs computed for: (1) all biology courses and (2) all science/math courses taken during graduate studies. The GPA for each of these areas should be a minimum of 3.0.

Language -Conversational English or better. If english is not your native language you will be asked to submit TOEFL scores when officially applying to UIUC.

–Preferred Qualifications– Demonstrating interest in any of the areas below would be looked upon favorably in the application process a. Evolution, behavioral ecology, insect biodiversity, or morphology b. Developing molecular biology skills (or preexisting experience with DNA-based lab work) c. Developing knowledge of imaging technologies or detailed morphological analysis d. Teaching e. Improving diversity in science, science outreach, or cultural exchange

–Application documents– 1. A “statement of purpose” (~500-1000 words) of your interests, career goals, experience, and achievements related to teaching and research. Please mention 2-3 of the preferred qualifications above. Your statement should outline your reasons for wishing to obtain a graduate degree. The statement should demonstrate an ability to organize and present information in English. It should be as specific as possible, especially if you have ideas about how you would execute the research project described above.

2. Two letters of recommendation from prior instructors

or research supervisors who are most familiar with your scholarship and potential for research.

3. An unofficial copy of your transcript.

After you have been preliminarily accepted for the position by the primary investigator, you will then submit an application (application fee will be reimbursed/waived) to one of three graduate departments at UIUC (EEB, PEEC, or Entomology). You will have to meet their minimum application requirements in order to be officially accepted.

Dominic Evangelista <dominicev@gmail.com>

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UJena Bioinformatics

There is a vacant PhD position for 3 years at the University Jena for the comparative analysis of genomes, transcriptomes and scRNA seq data of nematomorphs (horsehair worms).

Details:

Friedrich Schiller University is a traditional university with a strong research profile rooted in the heart of Germany. As a university covering all disciplines, it offers a wide range of subjects. Its research is focused on the areas Light. It is closely networked with non-research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city. The Research Group Comparative Developmental Biology led by Prof. Dr. Andreas Hejnol at the Institute for Zoology and Evolutionary Research seeks to fill the position of a

Doctoral Researcher in Bioinformatics

commencing on 01 November, 2022. We offer a part-time position (65%) for three years. The Hejnol Lab conducts several projects that range from genomic analysis, morphology, to advanced comparative developmental biological approaches of non-model organisms. We combine advanced methods in molecular biology, genomics, electron- and light microscopy, and single cell-omics to study a range of marine and limnic animals. The projects connect the genotype-level of organisation with the phenotype and compare the results using the comparative evolutionary approach. The mission of our

group is to understand how nature's fascinating phenotypic diversity has evolved and how genomic, cellular, and developmental changes led to this diversity. The work in the Hejnol lab includes bioinformatic and embryological work. Since the Principal Investigator Andreas Hejnol is also director of the Phyletic Museum the lab actively contributes to its outreach activities. English is the working language in our lab. The PhD student is expected to analyse generated sequencing data within the DFG grant "Establishment of nematomorphs as research organisms for comparative genomics and developmental biology" (<https://gepris.dfg.de/gepris/projekt/497790570?language=en>) in an evolutionary context. It is expected to solve current questions in animal evolutionary biology that relate to the evolution of cell types, organ systems, developmental pathways, physiological processes, and the interaction of nematomorphs with the environment. A contribution in teaching and outreach, e.g., through the Phyletic Museum is encouraged.

Your responsibilities: - Work on interdisciplinary research projects within the field of comparative genomics, single-cell sequencing and developmental biology - Genome and transcriptome analysis of nematomorphs and related taxa - Intense collaboration with project partners in zoology and genomics - Work on an own scientific qualification project, i.e. doctorate degree - PhD project planning, project coordination, experimental work, reporting, and communication - Generate scientific output in terms of publications, posters, presentations, and PhD thesis, including participation at international conferences - Guidance of Bachelor/Master students and/or interns

Your profile: - A Master's degree (or equivalent) in Biology or Bioinformatics; candidates expected to earn their degree before October 2022 are welcome to apply - A solid background in comparative or functional genome analysis and comparative transcriptomics - Experience in zoology and evolutionary biology is of advantage - Enthusiasm to play an active role in the interdisciplinary research team - Highly motivated and creative personality, with an interest to shape their own thesis project - Very good written and oral communication skills in English

We offer: - A doctoral researcher position (TV-L E13 - salary agreement for public service employees, 65%) with funding from November 1, 2022, for 3 years, as well as research funding - Opportunity for research in an innovative and international research team that works with a diverse range of invertebrates. - A communicative atmosphere within a scientific institute providing top-level research facilities and participation in international and national conferences, summer schools and workshops. - Outstanding options for outreach activities,

teaching and student supervision.

The advertised position is (initially) limited to a maximum of 3 years. This is a part-time position with 65% of the working hours of a full-time employee. Candidates with severe disabilities will be given preference in the case of equal qualifications and suitability.

Are you eager to work for us? Then submit your detailed written application containing CV, a motivation letter and the contact of two references, preferably by email (one PDF file), stating the vacancy ID

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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>

UMelbourne Amphibian Conservation Genomics SynBio

Call for PhD students in Amphibian Conservation, Genomics, and Synthetic Biology

Want to help save frogs declining from a pandemic disease?

Interested in studying functional genomics and using the latest methods in synthetic biology?

The One Health Research Group at the University of Melbourne is recruiting PhD students to study the genetic basis of immunity to the disease chytridiomycosis and develop targeted genetic intervention methods to increase disease resistance in declining frogs. Our research includes quantitative genetics, comparative genomics, transcriptomics, and developing synthetic biology approaches in frogs.

The projects are funded through the Australian Research Council, and PhD scholars will be advised by Drs Lee Skerratt, Tiffany Kosch, Lee Berger, and members of the One Health Research Group and collaborators including Zoos Victoria. The project will be based at the Melbourne Veterinary School at the Werribee campus.

Emerging infectious diseases are a major threat to ecosystems and new methods are needed to fight them. Chytridiomycosis is the most devastating disease of vertebrates, causing population declines in over 500 amphibian species worldwide. The project is focused on improving disease resilience in ecosystems using genetic

approaches, but the specific aims of the PhD research can be determined by the student. The expected outcomes of the project are improved understanding and increased immunity of frogs to chytridiomycosis and restoration of frogs into the environment.

To be eligible,

Expertise needed: Applicants must have experience with molecular biological, immunological, or genetics research such as genomics, quantitative genetics, synthetic biology, microbiology, or immunogenetics. Skills or interests in population genetics, functional genetics, conservation genetics, disease ecology, HPC computing, bioinformatics, statistical analyses, and animal husbandry are an advantage.

Scholarship applications are competitive - applicants must have first-class Honours, Master's by research (1 year full-time) or equivalent and an excellent academic record. Peer-reviewed publications are beneficial. Post Graduate Research Scholarships for stipends are available through the University of Melbourne, for which the applicant will need to apply separately by the 31st of October.

The project will commence in mid-2023

Please submit a CV, cover letter, transcripts, and contact information for two referees to Dr Tiffany Kosch tiffany.kosch@unimelb.edu.au by 30 September 2022.

For more information about our research team please visit our websites:

Lab: <https://blogs.unimelb.edu.au/one-health-research> Facebook page: www.facebook.com/pg/onehealthresearchgroup Twitter: <https://twitter.com/OneHealthRes> Ad Link: <https://www.dropbox.com/scl/fg4czkjkmjlieb7rgewdli/-Call-for-PhD-Position-in-Amphibian-Conservation-Genomics-and-Synthetic-Biology-2022.docx?dl=0&rlkey=bnneolxahixiu7j2onpdrn71s> Tiffany Kosch

Tiffany Kosch <tiffany.kosch@unimelb.edu.au>

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UMemphis PopGent

The Puckett Lab is recruiting a highly motivated student for a PhD position in Evolutionary Genomics. Available topics for a dissertation could include: assessment of local adaptation in light of complex demographic history; range-wide variation in local adaptation and role of inter-species introgression; or X and Y chromosome phylogeographies. All projects would use American black bears as the system of inquiry. Students interested in the link between evolutionary genomics and the conservation and management of the species are encouraged to apply.

Required Qualifications: Academic interests in evolution, genetics, and/or bioinformatics. Candidates should be organized, persistent, a team-player, and have strong writing skills. Due to funding, I am only able to consider applications from Americans.

Preferred Qualifications: A Master's degree or equivalent work experience. Experience working within Unix/Linux or a programming language (R, perl, python, etc). Wet lab skills including DNA extraction, gel electrophoresis, and next-generation sequencing library preparation.

Students will receive five years of stipend support via TA-ships and tuition waivers. To learn more about the graduate program and intellectual community within the department, visit: <http://www.memphis.edu/biology/> Please email Emily Puckett (Emily.Puckett@memphis.edu) with an informal inquiry or pre-application (CV, cover letter highlighting relevant experience and motivation for the position, and contact information for two references) as a single pdf. I screen applications ahead of the formal application to the department to save students application costs. Informal reviews welcomed from Sept to Dec 2022; formal applications are due Feb 1, 2023 for entrance to the program in Fall 2023.

“Emily Elizabeth Puckett (puckett3)”
<Emily.Puckett@memphis.edu>

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UMiami EvolutionBioticInteractions

We are looking for graduate students interested in joining our research group at University of Miami (amyzanne.org).

Students would join an interactive lab group and develop an independent research focus in line with ongoing lab projects.

Broadly we study how ecology and evolution of biotic interactions impact biogeochemical cycles. Many in our group explore how plant construction influences community structure and function (from morphology to genes) of biotic decay agents. Our lab also examines the consequences of these interactions for ecosystem carbon cycles, especially in USA, Australia, and Brazil as climate changes.

New lab projects will be based in the New World Tropics including south Florida and Brazil.

Other lab projects include solar radiation impacts on litter and wood decay, microbiome assembly on leaves and fruits, and macroevolution and functional ecology of plants, termites and microbes around the globe. The fully funded graduate work will be completed at University of Miami. If you are interested in working with us, send an email to me (Amy Zanne: aezanne@gmail.com) with brief details about your GPA, research interests and experiences, why our group is a fit for you and why you want to go to graduate school. For information about applying to the program, go to the University of Miami, Department of Biology website (<https://biology.as.miami.edu/graduate/index.html>). For fall 2023 admission, the application deadline will be 1 December 2022. I am happy to answer any further questions you might have!

Amy Zanne <aezanne@gmail.com>

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UNorthCarolina Wilmington EvolutionaryNeuroecology

The Schweikert Lab at the University of North Carolina Wilmington is recruiting a graduate student to join the Evolutionary Neuroecology group in the Department of Biology and Marine Biology (BMB) in the Fall of 2023. The available position is for the M.S. program < <https://uncw.edu/bio/grad-ms.html> >, with possible advancement to Ph.D. The student will be encouraged to develop an independent project with a research focus on dynamic camouflage in marine fish, examining how local vs system-level chromatophore arrangement supports color pattern generation over the skin. Support for this project comes, in part, from grant funding awarded by the Air Force Research Laboratory.

Students can learn more about the lab research program here: <https://schweikertlab.com> Research in the Schweikert Lab is integrative, and students with interest in developing histological, behavioral, and computational skills are encouraged to apply. Prior to applying to the UNCW program, interested students are encouraged to send an email to Dr. Lorian Schweikert (*schweikertl@uncw.edu*) that includes (1) a detailed curriculum vitae (with GPA), (2) a letter of interest outlining your rationale for pursuing a graduate degree, your career goals, and your motivation for applying to the Evolutionary Neuroecology lab, and (3) contact information for three references. Interviews for this position will begin after *November 1, 2022*, though interest emails will be accepted until the position is filled. The early application deadline for the graduate program at UNCW is Feb 15th 2023.

UNCW actively fosters a diverse and inclusive working and learning environment and is an equal opportunity employer. Qualified applicants from underrepresented groups are strongly encouraged to apply.

Lorian E. Schweikert, Ph.D. Assistant Professor Biology and Marine Biology University of North Carolina Wilmington 601 S. College Road Wilmington, NC 28403

Standing Meeting Room: <https://uncw.zoom.us/j/84464800501?pwd=eDVlVFQzV0pEd0ZXcjM1YmplR1BJQT09> Lorian Schweikert <lorian.schweikert@gmail.com>

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UOslo EvolutionaryGenomics

Position as PhD Research Fellow in evolutionary venomics available at the Centre for Ecological and Evolutionary Synthesis (CEES), at the Department of Biosciences, University of Oslo.

We are seeking a highly motivated candidate with a broad knowledge about evolutionary theory to study the evolution of venom in neuropteran insects.

The candidate will work with the group of Eivind Undheim at CEES. The group is interested in questions in evolutionary biology that relate to how evolutionary innovations and novelties emerge and how they interact across levels of biological complexity. A major focus of the group is to gain an understanding of the molecular underpinnings of evolvability using the venoms from lacewings (order Neuroptera) as models, which was recently funded by the European Research Council. The candidate will work with the macro-evolutionary aspect of this project, studying the mechanisms by which neuropteran venom proteins arose and have diversified using a broad range of methods, including proteomics, transcriptomics, genomics, functional assays, molecular evolutionary analyses, and structural biology. The project will also involve collaborations with other research groups both nationally and internationally (e.g., The University of Queensland, Australia).

We offer - A highly multidisciplinary project using cutting-edge research tools - Salary NOK 501 200 - 544 400 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017) - Attractive welfare benefits and a generous pension agreement - Vibrant international academic environment - Career development programmes - Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities

The candidate must have a Master's degree or equivalent in biology (required). Foreign completed degrees (M.Sc.-level) must correspond to a minimum of four years in the Norwegian educational system.

Application deadline is 18th September, and starting date is early 2023.

For additional details and to apply, see: <https://www.jobbnorge.no/en/available-jobs/job/231086/phd-research-fellow-in-evolutionary-venomics> For any other questions, please email

Eivind Undheim: e.a.b.undheim@ibv.uio.no

Eivind Andreas Baste Undheim
<e.a.b.undheim@ibv.uio.no>

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UOtago EvolutionaryGenomics

PhD position: Evolutionary response to environmental change

A PhD position in bioinformatics/evolutionary genomics is available to study the functional genomic basis of adaptation to environmental change (with A/Prof Michael Knapp at the University of Otago, Dunedin, New Zealand).

The New Zealand bird fauna is unique in the world and a key element of New Zealand's natural heritage. In the absence of mammals, birds have evolved to fill their ecological niches. This unusual situation has for example given rise to the world's largest raptor, Haast's Eagle, one of the few alpine parrot species in the world, the kea, and the world's only flightless parrot, the Kakapo.

The molecular evolution of these adaptations can help us understand how species respond to changing environments on the genome level.

We are looking for a PhD student to study the functional genomic basis of adaptations such as island gigantism and flightlessness in a range of New Zealand bird species. The ideal candidate will have a background in bioinformatics and genome data analyses. The position is contingent on the candidate obtaining a PhD scholarship, either from the University of Otago (please check eligibility: <https://www.otago.ac.nz/graduate-research/scholarships/phd/index.html>) or alternative international sources.

Selection process: Please apply by email with a cover letter and your CV (including grade point average or comparable measure from your qualifying degree) to A/Prof. Michael Knapp (michael.knapp@otago.ac.nz) by 02/October/2022. We will select the best applicant soon after this date and support them in their application for an Otago PhD scholarship. Starting dates are flexible, with an expected start date in early 2023.

About Otago: The University of Otago is one of the most research-intensive Universities in New Zealand with a world-class reputation in the life sciences. It provides an

environment that allows its students to undertake internationally recognized research, in a diverse and vibrant postgraduate environment and has been ranked as one of the most beautiful campuses in the world. The PhD student will be hosted by the Department of Anatomy, a diverse and research-oriented department with expertise ranging from genomics to biomedical sciences.

A/Prof. Michael Knapp Associate Professor in Biological Anthropology Department of Anatomy University of Otago Dunedin New Zealand

michael.knapp@otago.ac.nz

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ing@mcmaster.ca)

UPorto UMontpellier EvolutionaryGenomics

We are looking for a strongly motivated graduate student interested in pursuing a PhD degree in Evolutionary Genomics in collaboration between CIBIO-InBIO, University of Porto (<https://cibio.up.pt/>) and ISEM, University of Montpellier (<http://www.isem.univ-montp2.fr/en/>).

Application deadline: 25 October 2022

Title: The causes and consequences of ancient hybridization among hares

Project Description: It is now well documented that related species often exchange genetic material in the wild. Interspecific genetic introgression is thus a potentially important player in biodiversity evolution, yet poorly quantified and characterised. Modern genomics offers unprecedented opportunities to fill this gap and address several questions of great importance for our understanding of evolution: under what conditions does introgression occur, what is the role of natural selection in promoting or impeding it, and the origin selection? The project will focus on species of south European hares (genus *Lepus*) that were affected by introgression from an arctic/boreal species that they replaced in this region during the current deglaciation. Analysing a collection of full genome sequences and additional population genetics data, this project will aim to detect and quantify all factors modulating introgression, related for example with sex-linked transmission and behaviour, the interplay between recombination rate variation and genetic incompatibilities, positive natural

selection, and coadaptation between genomic regions. This project will allow the acquisition of skills in bioinformatics and sophisticated cutting-edge population and evolutionary genomics, by handling large-scale genomic datasets. This work is expected to have a general impact on the understanding of speciation and evolution through genetic exchange, broadening our understanding of biodiversity beyond species inventories. We offer a dynamic working environment across labs in an international collaboration with strong evolutionary genomics expertise. We value motivation and strong interest in evolutionary genomics research, teamwork skills and creative thinking. Prior experience in analyses of high-throughput sequencing data and bioinformatics skills are assets.

Supervision: - The PhD project will be supervised by José Melo-Ferreira (CIBIO-InBIO, University of Porto - <https://cibio.up.pt/en/people/details/jose-melo-ferreira/> ; <https://scholar.google.com/citations?hl=en&user=YYMR-gMAAAAJ>) and Pierre Boursot (ISEM, University of Montpellier; <http://www.isem.univ-montp2.fr/en/personnel/-teams/sex-and-speciation/boursot-pierre.index/> ; <https://scholar.google.com/citations?hl=en&user=fslosr0AAAAJ>) and developed in both labs. It will integrate the long-term collaboration between the institutions and imply mobility between the labs. Specific funds are available to sustain such mobility. - The successful candidate will integrate the EVOCHANGE - Genomics of Evolutionary Change - research group at CIBIO-InBIO (<https://cibio.up.pt/en/groups/-genomics-of-evolutionary-change-evochange/>).

The selected candidate will register in Doctoral Programme in Biodiversity, Genetics and Evolution of the Faculty of Sciences of the University of Porto. A cotutelle with the University of Montpellier is envisioned. The position will be funded by a PhD Fellowship from Fundação para a Ciência e a Tecnologia (FCT, Portugal). Monthly salary is compatible with living costs in Portugal and France ("BD" in https://www.fct.pt/apoios/-bolsas/docs/Tabela_de_Valores_SMM_2022.pdf), and the fellowship covers social security and tuition fees. The PhD project is expected to start in March 2023.

Required Qualifications: - Bachelor or Master degree in Biological Sciences or related areas; - Candidates should be highly motivated and demonstrate strong interest in Evolutionary Biology. - Preference will be given to candidates with experience in analyses of high-throughput sequencing data and bioinformatics skills. - Good writing and communication skills in English, excellent teamwork skills, and ability to work independently.

Important notice for non-Portuguese diplomas: In the case of academic degrees awarded by foreign higher education institutions, it is mandatory to recognize those degrees and to convert the respective

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USouthCarolina EvolutionaryBiology

The faculty of the Evolutionary Biology group in the Department of Biological Sciences at the University of South Carolina are recruiting graduate students (M.S. and Ph.D.) to start in Fall 2023. We seek applicants who are highly motivated and enthusiastic, keenly interested in evolutionary biology, and looking to join a dynamic group of evolutionary scientists. Our department also has strengths in ecology, marine biology, neurobiology, and plant biology, and many of the evolution faculty participate in those groups as well. More information about our Department can be found at <http://www.biol.sc.edu>. Graduate students in our program are guaranteed financial support through TA and RA appointments for five years, including tuition and health insurance. Outstanding applicants will be nominated for a variety of university fellowships.

Applications are due on December 1st. Potential applicants should contact one or more of our faculty well before the deadline to discuss their interests; students are admitted only with the endorsement of a faculty member. Additional information on our graduate program, including instructions on how to apply, can be found at https://sc.edu/study/colleges_schools/-artsandsciences/biological_sciences/study/graduate/-index.php. The members of the Evolution Group, their areas of interest, and links to websites are below.

Labs actively recruiting graduate students this year include:

Carol Boggs (boggscl@mailbox.sc.edu) - M.S. students only Evolutionary ecology & genetics; physiology, resource allocation, invasions, small populations https://www.sc.edu/study/colleges_schools/-artsandsciences/biological_sciences/our_people/-directory/boggs_carol.php Jeff Dudycha (dudy-

cha@biol.sc.edu) Evolutionary ecology & genetics; life history, phenotypic plasticity, diversification, vision/eyes, mutation <https://www.tangledbank.org/>

Bert Ely (ely@biol.sc.edu) Evolutionary genomics of *Caulobacter* and bacteriophage; genome rearrangement and HGT https://sc.edu/study/-colleges_schools/artsandsciences/biological_sciences/-our_people/directory/ely_bert.php

Brian Hollis (brian.hollis@sc.edu) Evolutionary genetics; sexual selection and sexual conflict, experimental evolution <https://experimentalevolution.org/>

Eric LoPresti (eric.lopresti@sc.edu) Community ecology; phenotypic evolution of plant-insect interactions <https://loprestieric.wixsite.com/lopresti-lab>

Tim Mousseau (mousseau@sc.edu) - students with independent funding only Evolutionary ecology & genetics; ecological and evolutionary consequences of radioactive contaminants <http://cricket.biol.sc.edu/Mousseau/Mousseau.html>

Additional Labs in the Evolutionary Biology Group that are not recruiting students this year include:

Jerry Hilbish: Evolutionary ecology & genetics; hybrid zones & speciation, species ranges, climate change

Joe Quattro: Evolutionary genetics; population & conservation genetics of rare/threatened aquatic animals

Dan Speiser: Evolutionary ecology & genetics; macroevolution, physiology, sensory ecology, vision, neurobiology

Carrie Wessinger: Genetics/genomics of adaptation, parallel evolution, plant speciation.

Our department is located in the heart of Columbia, South Carolina, a metropolitan area of 750,000 people (and 186,000 dogs!). Columbia ("Cola," or "Soda City" to locals) enjoys more than 300 days of sunshine annually and has ready access to beaches, lakes, rivers, and mountains. Congaree National Park, Sesquicentennial State Park, Lake Murray, and Harbison State Forest offer excellent wilderness areas nearby, along with several greenways on the city's three rivers. The Famously Hot/Surprisingly Cool city hosts historical and cultural attractions, performing arts and sporting events, and many annual festivals including the Rosewood Crawfish Festival, the Indie Grits Film Festival, the Famously Hot SC Pride Festival, and Reggaetronic, a floating music festival on Lake Murray. See <https://www.experiencecolumbiasc.com/> for more information.

Jeffrey L. Dudycha Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 dudycha [at] biol.sc.edu <http://www.tangledbank.org> tw: @JLDudycha

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UTasmania PlantEvoBiol

Applications are now open for a PhD scholarship (AU\$28,854/year, full time for 3.5 years) with a relocation allowance of up to \$2000 for a project at the University of Tasmania (Australia), investigating the evolution of stomatal opening mechanisms, co-supervised by Dr Frances Sussmilch, Prof. Tim Brodribb and Prof. Sergey Shabala: <https://www.utas.edu.au/research/degrees/available-projects/accordion-projects/science-technology-and-engineering/area/biological-sciences/how-do-plants-open-up> . Applicants who meet the selection criteria, with 1st Class Honours, Masters or equivalent research experience in Molecular Biology/Bioinformatics are encouraged to apply by sending their CV and cover letter to Frances.Sussmilch@utas.edu.au.

Frances Sussmilch <frances.sussmilch@utas.edu.au>

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UUtah HostParasiteEvolution

Ph.D. Research: Evolutionary Ecology of Host-Parasite Interactions, Clayton-Bush Lab, School of Biological Sciences, Univ. of Utah

We are seeking 1-2 highly motivated Ph.D. students interested in the evolutionary ecology of host-parasite systems. Recent projects in our lab focus on host specificity, speciation, adaptive radiation, experimental evolution, anti-parasite behavior, and implications of invasive parasites for conservation biology.

1-2 positions may be available, starting August, 2023. Students in our lab are supported through a combination of fellowships, research assistantships, and teaching assistantships. Support is guaranteed for five years, contingent upon good progress. Further information concerning the lab can be found here: <http://darwin.biology.utah.edu/> Our recent PhD. students

have obtained tenure-track positions at institutions ranging from top tier R1 universities and small colleges, to NGOs, industry, and the federal government.

The School of Biological Sciences at the University of Utah, including the Clayton-Bush Lab, is strongly committed to expanding equity and inclusion with the goal of making our community as strong and diverse as our research.

Please visit www.biology.utah.edu/ for information about the School of Biological Sciences at the University of Utah. Students interested in our lab should apply through the graduate program in Ecology, Evolution and Organismal Biology. Admission requirements and applications are available at: <https://www.biology.utah.edu/graduate-admissions/> The application deadline is January 1st 2022. Email inquiries to one or both of us are welcome:

Dr. Dale H. Clayton (clayton@biology.utah.edu) Dr. Sarah E. Bush (bush@biology.utah.edu)

Recent examples of publications by our lab:

Boyd et al. 2022. Long-distance dispersal of pigeons and doves generated new ecological opportunities for host-switching and adaptive radiation by their parasites. *Proceedings of the Royal Society B*. <https://doi.org/10.1098/rspb.2022.0042> Baldwin-Brown et al. 2021. The assembled and annotated genome of the pigeon louse *Columbicola columbae*, a model ectoparasite. *Genes, Genomes, Genetics*. <https://doi.org/10.1093/g3journal/jkab009> McNew et al. 2020. Parasitism by an invasive nest fly reduces future reproduction in Galapagos mockingbirds. *Oecologia*. <https://doi.org/10.1007/s00442-019-04582-y> Bush et al. 2019. Host defense triggers rapid adaptive radiation in experimentally evolving parasites. *Evolution Letters*. doi:10.1002/evl3.104 Villa et al, 2019. Rapid experimental evolution of reproductive isolation from a single natural population. *PNAS*. www.pnas.org/cgi/doi/10.1073/pnas.1901247116 Sarah Bush <dovelouse@gmail.com>

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UWaikato NewZealand PopGenomics Bioinformatics

PhD position: How isolated is Antarctica? Assessing past and present plant colonisations

Antarctica has long been considered biologically isolated from the rest of the world. Encircled by the enormous Southern Ocean ?; home to some of the world's strongest oceanic and atmospheric currents ??? and with a harsh, cold climate, the continent should be protected from natural incursions of non-native plants and animals. However, the development of molecular techniques in recent decades has revolutionised our capacity to test for past dispersal events, and emerging data demonstrates that natural incursions into Antarctica by terrestrial species have occurred; the Southern Ocean is therefore not the impenetrable barrier to dispersal that it is often thought to be.

The project aims to discover how, when, and where natural colonisations of the Antarctic continent have occurred, focusing on mosses - the dominant Antarctic plant group. Cutting-edge genomic tools will be combined with environmental, spatial, and ecological data to assess mechanisms and directions of dispersal to and around Antarctica, and to predict areas most likely to be colonised in the future. The research will help us understand the processes underpinning evolution and diversity of Antarctic species, and the vulnerability and adaptability of their ecosystems. Such knowledge is critical for Antarctic conservation in the face of rapid environmental change.

We have generated next generation sequencing data from museum specimens of Antarctic moss and are seeking a PhD applicant with skills in population genomics and/or bioinformatics - especially the analysis of exon capture data - to work on the outlined topic. The successful applicant will be based at the University of Waikato under the Chief Supervision of Dr. Ang McGaughran, and will be co-supervised by Assoc. Prof. Crid Fraser (University of Otago). There will be opportunities to spend time in the Fraser lab and to participate in fieldwork (e.g., in locations such as New Zealand, South America, Australia, sub-Antarctic) to augment the existing data with fresh collections and/or new locations. The chosen applicant will need to be successful in an application for a University of Waikato Doctoral Scholarship (<https://www.waikato.ac.nz/scholarships/s/university->

of-waikato-doctoral-scholarship) - the closing date for the next round of these applications is 30 September 2022 and the application (open to New Zealand citizens, permanent residents, and international students) takes place as part of the enrolment process. Because we have some data in hand, an initial remote start could be facilitated for the right candidate if border restrictions in New Zealand require this.

To apply for this opportunity to do exciting, cutting-edge research with real-world applications, please

send an interest statement and CV to: *amcgaugh@waikato.ac.nz*. Enquiries at the same email address are welcome.

Dr. Angela McGaughran FHEA Senior Lecturer Te Aka Mātuatua - School of Science University of Waikato Private Bag 3105 Hamilton 3240 New Zealand www.ang-mcgaughran.com ang.mcgaughran@gmail.com

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ArizonaStateU EvolutionaryBiology

The School of Life Sciences (SOLS) and the Biodesign Center for Mechanisms of Evolution (CME) at Arizona State University (ASU) invite applications for a full-time, benefits-eligible, tenure-track, open-rank faculty position with an anticipated start date of August 16, 2023. Rank and tenure status will be commensurate with experience. This is the sixth of six anticipated CME faculty positions, focused on the mechanistic processes underlying evolutionary change. The Center occupies a floor in a new building in the Biodesign Institute, which itself supports a diversity of other interdisciplinary centers and is well-equipped with state-of-the-art facilities.

The research focus of the Center is primarily on evolution at the molecular and cellular levels, with the group being populated by scientists from the areas of cell and evolutionary biology, microbiology, biophysics, biochemistry, and population genetics. The successful candidate will join a supportive, inclusive, and dynamic faculty working to advance creative research and excellence in teaching through its work in the diverse and growing undergraduate and graduate student population at ASU. Our search will be broad within the field of evolutionary cell biology, and so we encourage applications from people from a wide variety of research backgrounds. We invite you to learn more about the School of Life Sciences, the Biodesign Institute and the CME, and Arizona State University by visiting <https://sols.asu.edu>, <https://biodesign.asu.edu/mechanisms-of-evolution/> and <https://newamericanuniversity.asu.edu/>, respectively. Candidates can anticipate competitive salary and start-up packages.

Successful candidates will be expected to develop an innovative, extramurally funded, independent research program; fulfill teaching requirements at both the undergraduate and graduate levels, including mentoring undergraduate and graduate students, and postdoctoral trainees; and have a commitment to outreach and service at levels within and outside the University community. Interaction and collaboration with faculty of SOLS and with other groups in the Biodesign Institute, the School of Molecular Sciences, and the recently announced Mayo Clinic and ASU Alliance for Health Care partnership is encouraged.

ASU and The College of Liberal Arts and Sciences value diversity, equity, and inclusion and continually strive to foster a welcoming and inclusive environment. We are especially interested in applicants who can

strengthen the diversity of the academic community. The ASU charter reads, in part, that the institution will be “measured not by whom it excludes, but by whom it includes and how they succeed” (<https://www.asu.edu/about/charter-mission-and-values>). For more information on ongoing DEI activities in SOLS please visit <https://sols.asu.edu/about/justice-equity-diversity-inclusion?dept=426024&id=1> Minimum Qualifications: * A doctoral degree or MD/PhD in the biological sciences or a related field, and one or more years of relevant postdoctoral experience at the time of appointment * Demonstrated research and teaching/mentoring excellence commensurate with experience * A significant commitment to evolutionary biology, with past or planned interests in evolutionary cell biology * A demonstrated record of research productivity commensurate with experience * Potential to develop an innovative and sustainable research program * Demonstrated experience or future commitment to work with diverse student, faculty and staff populations.

Desired Qualifications: *Candidates with research areas that expand our overall research and instructional capabilities will be preferred

To apply, please click here apply.interfolio.com/114422 to submit required application materials electronically. Materials shall include, (1) A one-page cover letter (2) a comprehensive curriculum vitae that includes a complete publication record, (3) three representative publications, which may include posted preprints, (4) a statement of research vision and plans, (5) a statement of teaching philosophy/experience, (6) a statement addressing how your past and/or potential contributions to diversity and inclusion will enhance the DEI efforts of the CME, SOLS, and/or ASU, (7) names and email addresses for three (3) references who may be contacted at a later stage of consideration. All applications must be sent electronically. Specific scientific inquiries can be addressed to John McCutcheon, Associate Director of the CME (john.mccutcheon@asu.edu). Application deadline is November 9, 2022. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed

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BallStateU EvolutionaryBiology

Tenure-Track Assistant Professor of Biology Ball State University - Muncie, IN, United States

Application Review Begins: Friday, September 09, 2022
Application Deadline: Sunday, October 09, 2022 Field:
ecology / systematics / plant conservation

Ball State University invites applications for a tenure-track position in Biology. The successful candidate will join the Department of Biology in the newly constructed Foundational Sciences Building, which features collaborative space, a research library and computer labs, a vascular plant herbarium, and cutting-edge teaching and research laboratories (https://www.youtube.com/watch?v=Nld_U8q.tXo), and will be able to teach students from diverse backgrounds in introductory botany, plant taxonomy, aquatic botany, and to take an active role in managing the BSU herbarium. The candidate should also be able to develop an externally funded research program that will advance the research opportunities of undergraduate and graduate students while complementing and collaborating with current faculty in the Department of Biology. The research program should focus on any aspect of botany related to the listed teaching responsibilities. Our field biology concentrations are unique among our peer institutions, and, accordingly, we are especially interested in individuals who can excite and motivate students from diverse backgrounds in field studies. Candidates with experience in native plant conservation, wetland studies and plant systematics are especially encouraged to apply.

Ball State University offers generous start-up funding and strong institutional support, enabling new faculty to develop productive research programs. Faculty in the Department of Biology have been successful in publishing student-driven research in peer-reviewed journals and obtaining substantial extramural funding from sources including the National Institutes of Health, the National Science Foundation, and the Indiana Department of Natural Resources. Many faculty pursue interdisciplinary collaborations with other BSU investigators within the Department of Biology, and the Departments of Chemistry, Geography, Mathematical Sciences, and Environment, Geology and Natural Resources.

Ball State University is an Equal Opportunity/Affirmative Action employer that is strongly and

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

Ball State University is located in the culturally-rich city of Muncie, IN and is within short driving distance of Fort Wayne, IN, and Indianapolis, IN. The campus of Ball State University maintains the David Owsley Museum of Art, which holds over 11,000 works of art. Also on campus is the newly renovated Emens Auditorium, which has hosted world-renowned artists, musicians, and shows since 1964. The recently revitalized Downtown Muncie hosts monthly arts gatherings (First Thursdays), numerous annual festivals, and the Muncie Three Trails Music Series. Muncie is also the nexus of Indiana's longest span of recreational trails (the Cardinal Greenways), and the nearby Prairie Creek Reservoir annually hosts the Ironman 70.3 Muncie triathlon.

Applications are online. Follow application tab at the following link.

<https://bsu.peopleadmin.com/postings/33238> This position requires an earned doctorate in Botany, Biology or related field from an accredited college or university.

The following documents are required: 1. Cover Letter 2. Curriculum Vitae 3. Teaching Statement/Portfolio 4. Research Statement/Papers 5. Inclusive Excellence Statement

Robert A. Haney, rahaney@bsu.edu

"Haney, Rob" <rahaney@bsu.edu>

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BielefeldU BehaviouralEvolution

Job announcement

Bielefeld University, Department of Evolutionary Biology

Research Associate position in Evolutionary Ecology of Behaviour

Application deadline: 12.10.2022

The Faculty of Biology offers a full-time research asso-

ciate position in Evolutionary Ecology of Behaviour

The candidate will be part of an active and cooperative international team of researchers in the Department of Evolutionary Biology. The main research focus of the work group is on studying general aspects of the evolutionary ecology of behaviour, using various methods to understand phenotypic plasticity, the evolution of sex differential traits, phenotypic variance and maintenance of between-individual differences. The Department of Evolutionary Ecology is involved in a larger DFG-funded third-party project (CRC/TRR 212): "A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3)".

Main responsibilities:

Research tasks (75 %): - designing and performing experiments, meta-analyses or theoretical models - analysing the received data and writing scientific publications for international journals In case of experimental studies planned by the applicants, it is indicated that the present infrastructure likely only suits smaller invertebrates

Teaching tasks (20 %): - involvement in teaching activities within the work group. Courses already exist, contribution flexible dependent on experience and preferences (4 hours per week)

Other tasks (5 %): - contribution to organising the group meetings and the Evolution Seminar - help keeping the departmental homepage updated - the tasks will be fulfilled in cooperation with other members of the work group - the employment is designed to encourage further academic qualification

Your Profile

We expect - completed scientific university degree (e. g. Master or equivalent) in a relevant discipline, e.g., biology, statistics, potentially even mathematics, physics or any similar subject - completed PhD in a relevant field - experience in evolutionary or behavioural ecology - experience with either experimental tests of evolutionary theory, statistical meta-analyses or mathematical modelling of evolutionary processes - interest in general biological questions related to theoretical evolutionary ecology of behaviour - excellent oral and written English language skills

- independent, self-reliant and dedicated style of work

- strong organizational and coordination skills - ability to cooperate and work in a team

Preferable qualifications - main focus of PhD in theoretical ecology, population genetics, behavioural ecology or evolutionary ecology - some post-doc experience in related research - successful publication of papers in

peer-reviewed international journals - experience in collaborations between empiricists and theoreticians - some overlap of research interests with other members of the department - candidates with research interests overlapping with the research in the CRC 212 are strongly encouraged to apply for this position

We offer

- salary according to Remuneration level 13 TV-L full-time, fixed-term (48 months) (\ddot{u} ; $\frac{1}{2}$ 2 (1) sentence 2 of the WissZeitVG; in accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases) - internal and external training opportunities - reconcilability of family and work flexible working hours - job ticket for regional public transport network - collegial working environment - open and pleasant working atmosphere - exciting, varied tasks

Application Procedure: We are looking forward to receiving your application that should contain at least a motivation letter and a CV including a publication list. For full consideration, your application should be received via email (a single PDF document is required). Please mark your application with the identification code: Wiss22685. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail.

application deadline: 12.10.2022 Postal Address

Bielefeld University, Biological Faculty, Evolutionary Biology Prof. Dr. Klaus Reinhold P.O. Box: 10 01 31 33501 Bielefeld, Germany

Phone: +49 521 106-2721 Email: Klaus.Reinhold@uni-bielefeld.de

"Reinhold, Klaus" <klaus.reinhold@uni-bielefeld.de>

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ing@mcmaster.ca)

Caltech Evolutionary Biology

The Division of Biology and Biological Engineering (BBE) at Caltech is seeking new faculty in all areas of biological science and biological engineering, with particular interest in individuals who are pursuing research that would benefit from and add to the interdisciplinary environment of Caltech's BBE division and its linkages to other disciplines at Caltech.

Areas of interest include, but are not limited to (alphabetically): biological engineering; cellular, developmental and regulatory biology; ecological and biosphere science and engineering; neural and behavioral biology; organismal and integrative biology; and virology, immunology and infectious disease.

Successful applicants are expected to develop innovative research programs and to be committed to high quality teaching. Preference will be given to candidates at the Assistant Professor level; however, well-qualified applicants at the associate or full professor level may also be considered.

The term of an initial untenured appointment is normally four years and is contingent upon completion of the Ph.D. degree. Reappointment beyond the initial term is contingent upon successful review conducted prior to the commencement of the fourth year.

Please submit on-line applications, and include a brief cover letter; curriculum vitae; relevant publications, a description of proposed research; and a statement of teaching interests. Applicants should also submit a diversity and inclusion statement that discusses past and/or anticipated contributions to improving diversity, equity, and inclusion in the areas of research and teaching.

Applicants should arrange to have 3-4 reference letters uploaded.

Applications must be submitted no later than 1 November, 2022.

<https://applications.caltech.edu/jobs/bbe> – Joe Parker, Ph.D. California Institute of Technology Division of Biology and Biological Engineering 1200 E. California Blvd. MC 216-76 Pasadena, CA 91125

Tel: +1 626 395 8729 <https://www.beetles.caltech.edu/> "Parker, Joseph" <joep@caltech.edu>

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Cambridge Three TreeOfLifeBioinformatics

Dear all,

We have *three key science job positions open* in our Darwin Tree of Life Assembly team < <https://www.sanger.ac.uk/collaboration/darwin-tree-of-life-project/> >. Personally, I can say that this is an amazing environment to work in: we have lovely people in the different teams, and a lot of funding and data to do wonderful science with for years to come. Come join us!

With >500 genomes down, we are on our way to the @darwintreeoflife goal of generating high quality chromosomal assemblies for all eukaryotic species in the UK, but there are many challenges remaining.

1-) Firstly, we are seeking a Senior Bioinformatician to not only work on the actual assemblies, but to also help with continually improving the assembly process by trying out or developing new methods, testing out new data types.

<https://jobs.sanger.ac.uk/vacancy/senior-bioinformatician-genomics-data-scientist-tree-of-life-assembly-497531.html>

2-) Secondly, we are seeking a Senior Software Developer to work on the more operational side including efficient running and development of @nextflowio pipelines and integrating the pipelines with database backends.

<https://jobs.sanger.ac.uk/vacancy/senior-software-developer-tree-of-life-assembly-497574.html>

3-) Lastly, we have a unique opportunity for a Principal Computer Scientist to work with us and @richard.durbin and the wider assembly community on new tools and algorithms within and around assemblies.

<https://jobs.sanger.ac.uk/vacancy/principal-computer-scientist-tree-of-life-assembly-497612.html>

All the best,

Marcela Uliano da Silva, PhD

Senior Bioinformatician - Wellcome Sanger Institute Darwin Tree of Life Project

Churchill College Cambridge By-Fellow

Cambridge, UK

Marcela Uliano da Silva <marcela.uliano@gmail.com>

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Chicago Botanic Garden Conservation Genomics

Chicago Botanic Garden is hiring a career track scientist who uses genomics and bioinformatics tools to answer questions relevant to conservation and/or restoration <https://tinyurl.com/AssistConservationSciGenomics>

About us: The Chicago Botanic Garden's Negaunee Institute for Plant Conservation Science and Action is a global leader in plant-based research, education, and engagement to sustain and enrich life. Based in the Chicago metropolitan area, one of the largest, and most racially diverse cities in North America, the Garden opened 50 years ago as a beautiful place to visit, and it has matured into one of the world's great living museums and conservation science centers. The Garden's mission is grounded in the belief that caring for gardens and natural areas is fundamentally important to the well-being of everyone. The Garden strives to make its campuses and all its programs available and accessible to people of all ages, backgrounds and abilities. We value diversity in all its forms and at every level of our organization - board, staff, volunteers, and vendors. Through the diversity of backgrounds, perspectives and experiences, the Garden is more effectively able to create extraordinary and welcoming experiences for our increasingly diverse audiences. We are committed to ensuring a sense of belonging to every individual we encounter, regardless of age, race, gender, ethnicity, religion, sexual orientation, physical ability, intellectual ability, or economic status.

Position Overview: We seek to hire an assistant scientist to join the Garden's Negaunee Institute for Plant Conservation Science and Action (<https://www.chicagobotanic.org/research>). We are seeking a full-time, career-track scientist who uses genomics and bioinformatics tools to answer questions relevant to conservation and/or restoration. Research interests in any area of genomics, including but not limited to biogeography, community genomics, environmental genomics, evolution, fungal/microbial genomics, phylogenomics or systematics. The successful candidate will join a highly collaborative group of scientists focused on addressing key conservation challenges. In addition to conducting research, the successful candidate will serve as faculty in our joint Plant Biology and Conservation graduate

program with Northwestern University and will be expected to mentor, assist and train students in using genomic and bioinformatic tools. All scientists at the Garden are expected to assist with education programs including internship programs, community engagement and service activities where appropriate.

The preferred start date is early 2023 but can be flexible.

Responsibilities: 1. RESEARCH: (Estimated time commitment: ~40%)

* Conduct genomic and bioinformatic research that has conservation or restoration implications. * Obtain external funding to support their research programs. * Disseminate results through scientific publications and presentations as well as broader communication venues that target groups such as policy makers, land managers, and the public.

2. EDUCATION: (Estimated time commitment: ~30%)

* Mentor students from diverse backgrounds at a variety of academic levels. * This will include serving as an advisor or committee member for * Graduate students in the Garden's Plant Biology and Conservation program with Northwestern University (<https://www.plantbiology.northwestern.edu/>), * Undergraduate students from Northwestern University and our NSF-REU Site program (<https://pbcinternships.org/>) over the summer. * High School students in the College First program (<https://www.chicagobotanic.org/collegefirst>) * Participation in team-teaching a Northwestern University introductory graduate course in field and lab methods (2-3 class sessions in fall); teaching an upper-level undergraduate or graduate level course in the candidate's area of expertise is encouraged (each class is 9 weeks).

3. INSTITUTIONAL SERVICE: (Estimated time commitment: ~20%)

* Assist in the management of the departmental bioinformatics server * Contribute to Garden and departmental initiatives. These include * Provide genomic and bioinformatic support to staff and students for research and applied projects at the Garden. * As a public-facing institution, scientists are expected to participate in science interpretation efforts or other Garden initiatives depending on the candidate's interest and skills. This can include various activities, including assistance with

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ClemsonU Three HumanGenetics

Clemson University invites applications for three tenure-track Assistant Professors as part of a Cluster Hire at the Center for Human Genetics, with an expected start date of August 2023. Clemson University offers competitive salaries, benefits and start-up funds.

Two positions are in computational genetics/genomics. Areas of special interest include, but are not limited to, theoretical population genetics, statistical genetics, systems genetics, comparative evolutionary genomics of disease, and genomic data analysis. However, all computational areas with the potential to significantly advance the field of human genetics will be considered. The computational genetics/genomics positions will be based on the main Clemson campus in Clemson, SC. Please apply via Interfolio at: <http://apply.interfolio.com/113071>. One position is in genetics/genomics. Applicants whose research combines experimental laboratory work and computational approaches are especially desirable. Areas of special interest are the mechanisms by which variation in epigenetic modification, gene regulatory networks, chromatin conformation and nuclear architecture affect variation in human health and disease. However, all areas with the potential to significantly advance the field of human genetics will be considered. This position will be based in Self Regional Hall in Greenwood, SC. Please apply via Interfolio at: <http://apply.interfolio.com/113072>. The mission of the Center for Human Genetics (<https://scienceweb.clemson.edu/chg/>) is to understand the principles and mechanisms by which genetic and environmental factors affect human health and disease. Laboratory facilities for the successful candidate will be in Self Regional Hall, a 17,000-square-foot building located in Greenwood, South Carolina on the Greenwood Genetic Center Partnership Campus. The Center for Human Genetics provides a vibrant interactive research environment with state-of-the-art genomic and computational resources, and is ideally configured for collaborative research. The successful applicant will be part of a collaborative and interdisciplinary environment that includes the research, diagnostic and clinical geneticists at the Greenwood Genetic Center, the genetics, genomics, statistics and bioinformatics faculty at Clemson University, the USC School of Medicine in Greenville and the Prisma Health System. The home department will be determined by the fit of the applicant's

research interests with the mission of the Department of Biological Sciences (<https://www.clemson.edu/science/-academics/departments/biosci/>) or the Department of Genetics and Biochemistry (<https://www.clemson.edu/science/academics/departments/genbio/>).

Clemson University is committed to building a diverse and inclusive community of faculty scholars dedicated to working and teaching in a multi-cultural environment (<http://www.clemson.edu/inclusion/>). We encourage applications from women, minorities and individuals with a commitment to mentoring colleagues and students from demographic groups underrepresented in the sciences. We are also supportive of the needs of dual-career couples.

Successful candidates must hold a doctoral degree and have postdoctoral experience. Competitive candidates will demonstrate an ability to develop a vigorous and independent, externally funded and nationally recognized research program; demonstrate teaching excellence and a commitment to diversity inclusion; and participate in relevant undergraduate and graduate education programs.

Applicants should submit the following items via Interfolio: (1) cover letter; (2) Curriculum Vitae; (3) statement of research interests including future plans; (4) statement of teaching interests and experience; (5) statement describing past experience and/or future plans to promote diversity and inclusion; and (6) up to three reprints in one PDF. Applicants should also arrange, through Interfolio, the submission of three confidential letters of recommendation on their behalf.

Inquiries should be directed to Dr. Trudy Mackay (tmackay@clemson.edu).

For full consideration, applications should be submitted by October 23, 2022. Review will continue until the position is filled.

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment.

TRUDY F. C. MACKAY, PhD, FRS

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ColbyC Maine Evolutionary Immunology

Assistant Professor of Biology - Molecular Biology - Immunology

Colby College - Waterville, ME

The Department of Biology at Colby College is seeking an Immunologist to fill a tenure-track position as Assistant Professor of Biology to begin September 1, 2023. Applicants should have a Ph.D. in a relevant field. Candidates who use molecular, ecological, and evolutionary approaches to immunology are all welcome to apply. Postdoctoral experience is desirable. A strong commitment to undergraduate education is expected. We are especially interested in candidates who, through their research, teaching, and service, will contribute to the diversity and excellence of the campus community.

Teaching involves the equivalent of 4.5 courses per year, with laboratories and seminars constituting a portion of that load. The teaching responsibilities will include Immunology, Molecular Biology, and an advanced course in the candidate's field of expertise. In some years, teaching duties may include a 100-level introductory biology course and a seminar for seniors majoring in Biology.

The successful candidate is expected to establish an active research program that includes supervision and mentoring of undergraduates. Our facilities are well-suited for work with non-mammalian model organisms and cell culture. Active affiliations with the Jackson Laboratory, Mount Desert Island Biological Laboratory, and Bigelow Laboratory for Ocean Sciences provide potential for collaborative research opportunities. An attractive startup package is available. Female candidates will be considered for a Clare Boothe Luce Assistant Professorship, which includes dedicated annual research funds and salaries for undergraduate research assistants.

Please submit a cover letter, curriculum vitae, contact information for three referees, statements of teaching philosophy and research interests, a statement describing the candidate's potential contributions to Colby's institutional commitment to diversity and inclusive pedagogy, graduate transcripts, and a representative sample of recently published work on Interfolio link: <http://apply.interfolio.com/112363>. Candidates are invited to include a statement in their cover letter regarding how

the COVID-19 pandemic has affected their career trajectory. Review of applications will begin on October 1 and will continue until the position is filled.

Colby is a private, coeducational liberal arts college that admits students and makes personnel decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. The principle of not discriminating on the basis of race, color, age, sex, sexual orientation, gender identity or expression, religion, caste, national or ethnic origin, marital status, genetic information, political beliefs, veteran or military status, parental status, pregnancy, childbirth or related medical conditions, physical or mental disability unrelated to the job or course of study requirements is consistent with the mission of a liberal arts college and the law.

<https://apply.interfolio.com/112363> Suegene Noh
<snoh@colby.edu>

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DePaulU EvoDevo

Description

The Department of Biological Sciences at DePaul University is pleased to invite applications for a tenure track position at the rank of Assistant Professor to begin autumn 2023:

<https://apply.interfolio.com/109736> Applicants must hold a PhD and be broadly trained in Biology with a preference given to those focused on Developmental Biology with experience in one or more of the following: molecular biology, cellular biology, bioinformatics, or genomics. All fields of developmental biology and all systems will be considered.

The successful applicant will have a strong commitment to undergraduate education in a diverse environment and will establish an active independent research program that includes both undergraduate and graduate Master's students. Teaching responsibilities will include some combination of developmental biology, molecular biology, general biology, courses for non-science majors and possibly other courses related to the candidate's interests and expertise.

In addition to teaching and research activities, the faculty member will participate in service opportunities

while contributing to an established, vibrant Department of Biological Sciences. Dedicated research space and startup funds are available. The Department is housed in a spacious and well-equipped teaching, research and support facility, including a 2,000 sq. ft. state-of-the-art staffed animal care facility.

Visit <https://csh.depaul.edu/academics/biological-sciences/Pages/default.aspx> for more information about the Department of Biological Sciences.

DePaul University seeks applicants who reflect the diversity of its student body and the city of Chicago. Applicants who have experience working with a diverse range of faculty, staff, and students, and who can contribute to an inclusive climate are encouraged to identify their experiences in these areas. Members of historically underrepresented groups are especially encouraged to apply.

About the College The College of Science and Health is the third largest college at DePaul, enrolling over 3000 students. The college includes programs in mathematics, psychology, physics and astrophysics, environmental science and studies, chemistry and biochemistry, biology, neuroscience, health sciences and nursing. The College of Science and Health provides high quality, personalized, accessible science and health education to a diverse student body, grounded in the values of St. Vincent de Paul. Our teaching and research advance knowledge and service to society.

About the University With an overall enrollment of over 22,000 students, DePaul is the nation's twelfth largest private non-profit university. While the university is large, the class size in the department typically does not exceed 40 students. We seek Candidates with a demonstrated record of effectiveness as the instructor for a wide variety of courses or teaching environments, a demonstrated commitment to continued development as an educator, and active engagement in high-quality research.

Qualifications

PhD in Biology or closely-related field; Broad training in Biology, with a preference given to applicants focused on Developmental Biology with experience in one or more of the following: molecular biology, cellular biology, bioinformatics, or genomics.

Application Instructions

The full and complete application should contain the following information:

Letter of application indicating qualifications for the position Curriculum Vitae Statement of teaching philosophy Statement of research agenda Statement of efforts

to support diversity, equity, and inclusivity General list of equipment and supply needs with cost estimates Three confidential letters of recommendation

Review of applications will begin November 1, 2022 and will continue until the position is filled. Candidates will not be considered until all the above materials are received.

For further questions about this position, please contact Dr. John V. Dean, Biology search committee chair at jdean@depaul.edu.

Application Process

This institution is using Interfolio's Faculty Search to conduct this search. Applicants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge.

Equal Employment Opportunity Statement

DePaul University is an Equal Opportunity / Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, ethnicity, religion, sex, sexual orientation, gender identity, national origin, age, marital status, physical or mental disability, protected veteran status, genetic information or any other legally protected status, in accordance with applicable federal, state and local EEO laws.

Safety and Security Statement - Clery Act:

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EastTennesseeStateU WildlifeVertebrateZoologist

BIOLOGICALSCIENCESTENURETRACK- East Tennessee State University, Department of Biological Sciences invites applications for a 9-month tenure-track Assistant Professor in vertebrate wildlife biology beginning 15th August 2023.

Successful applicants will have a Ph.D. in Life Sciences (e.g. biology, natural resources, evolution, or related field) and a record of research excellence as demonstrated by high-quality publications in wildlife biology,

ecology, or related fields. Postdoctoral experience and evidence of successful grantsmanship are desirable. The ideal candidate will address fundamental questions in vertebrate wildlife biology using state-of-the-art laboratory and/or field approaches. Candidates working on any vertebrate system will be considered but candidates working on systems in the southern Appalachian region are particularly encouraged to apply. The position will complement departmental strengths in evolutionary biology, ecology, genetics, and cell and molecular biology.

The successful candidate is expected to build an innovative, nationally recognized, and externally-funded research program, as well as contribute to effectively engaging undergraduate and graduate teaching, and mentoring that support diversity and inclusion. Candidates will be expected to teach in the areas of Natural Resources Ecology and Vertebrate Biology. Development of an introductory or advanced course in the candidate's specialty is also expected. The successful applicant will assist in the development and implementation of strategies for student success and retention in our biology program, and in particular our concentration in natural resources ecology. The successful applicant will also participate in service activities in the department, university, and community. The position is subject to the availability of funds.

To apply, submit a cover letter, curriculum vitae, teaching philosophy including a demonstrated commitment to engaging diverse student populations, statements of research interests, and names and contact information for three references via ETSU's eJobs online application system.

The Department of Biological Sciences currently comprises thirteen faculty members engaged in a wide range of teaching and research activities. The Department serves approximately 450 majors and 40 M.S. and Ph.D. students. East Tennessee State University enrolls over 12,000 undergraduate students and offers 40 master's degree programs, 12 doctoral degree programs, and 24 graduate certificates to over 2,300 graduate students. ETSU is located in Johnson City, Tennessee, a city of about 67,000 located in the southern Appalachian Mountains, which is one of the most biodiverse regions in the US. The region has a total population of more than 400,000 and combines a low cost of living with amenities found in larger urban areas.

Equity and Inclusion are at the core of our work at East Tennessee State University. We are intentional about pursuing diversity, developing and building inclusive learning and working environments, and making sure all faculty, staff, and students are respected and welcomed

in the Department of Biological Sciences. We believe all roads-Teaching, Research, and Service-lead to equity and inclusion. Our programming, scholarly activities, and academic offerings reflect our shared commitment to understanding and engaging the world around us. We embrace difference and believe it enriches our academic mission. We seek a faculty who shares our vision.

Search Committee Chair: Dr. Richard Carter, ETSU Department of Biological Sciences, Box 70703, Johnson City, TN 37614-0703, email: carterrt@etsu.edu. For more information, refer to the website <https://www.etsu.edu/cas/biology/>. ETSU is an Affirmative Action/Equal Opportunity Employer. We encourage applications from or information about women and minority candidates.

To apply: <https://jobs.etsu.edu/postings/23009> Assistant Professor

BIOLOGICAL SCIENCES TENURE TRACK - East Tennessee State University, Department of Biological Sciences invites applications for a 9-month tenure-track Assistant Professor in vertebrate wildlife biology beginning 15th August 2023. Successful applicants will have a Ph.D. in Life Sciences (e.g. biology, natural resources, evolution, or related field) and a record of research excellence as demonstrated by high-quality publications in wildlife biology, ecology, or related fields. Postdoctoral experience and evidence of successful grantsmanship are desirable. The ideal candidate will address fundamental questions in vertebrate wildlife biology using state-of-the-art laboratory and/or field approaches. Candidates working on any vertebrate system will be considered but candidates working on systems in the southern Appalachian region are particularly encouraged to apply. The position

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Editor Contracts Three Biodiversity

Three editor contracts for improving natural science collections' representations in the GBIF registry of scientific collections

Funded by the Global Biodiversity Information Facility (GBIF), three editors will contribute services and

improved datasets on a contractual basis to the CESP project “Promoting the visibility of scientific collections in Latin America and the Caribbean by strengthening their presence in GRSciColl” (CESP2022-011).

Project environment

We are an international team of collection professionals, scientists, consultants, GBIF node managers and policy-makers who are keenly engaged in strengthening natural science collection and highlighting their contributions to addressing today’s societal challenges, e.g. global change and the biodiversity crisis. Our activities include promoting collections’ visibility, improving their capacities for data sharing and fostering a global network of collections and the collections community.

Funded by GBIF’s Capacity Enhancement Support Program, we are currently focusing our work on scientific collections in the Latin American and Caribbean region, specifically on collections in Argentina, Ecuador and Guatemala. The project continues a pilot campaign conducted with support by the GBIF national node for Ecuador last year and initiated by members of the international Society for the Protection of Natural History Collections (SPNHC).

Position overview

Editors will act as outreach managers, contact points, trainers and help desk for connecting collection’s contact staff and GRSciColl. Guided by a national and/or taxonomic focus, they will find, contact, communicate and connect with scientific collections and their staff.

As collaborators, editors and the contact points for the collections together will enter and update records in GRSciColl with an agreed upon set of minimal information on institutions, collections and staff members.+

Our offer

- Contract work in the amount of approximately 4000 Euros per editor (minus e.g. taxes and administrative costs, e.g. exchange and bank fees) to be conducted from October 1, 2022 to July 31, 2023.
- Work at the interface of collection work, social networking and community building as well as technical infrastructure development.
- International work environment: work with colleagues from three continents, including three countries in the Latin American and Caribbean region.
- Project partners are engaged in collections-based evolutionary science, professional collections care, infrastructure development, science-policy advocacy and policy-making, workforce capacity development and community building.

Responsibilities

Contract work includes

- outreach to different sections of the collection community within the region, specifically in Argentina, Ecuador and Guatemala, to raise interest, and identify contact points for collections,
- contacting of collections staff and interacting with them,
- providing support to collection representatives for filling in and submitting new records to GRSciColl and/or updating a collection’s existing presence in GRSciColl,
- providing GRSciColl training and helpdesk services to collection contact points and staff,
- review submissions of changes and new records to GRSciColl, and
- collaborate with the members of the three national GBIF nodes that are partners in the project and the GRSciColl team at GBIF.

Criteria

- Enthusiasm for natural science collections, preferably experience working in collections and an understanding of collections as crucial data providers.
- Enjoy interacting and communicating with a range of diverse people.
- Be willing to work in a cross-continental environment at the intersection of community building and data infrastructure development.
- Fluent in Spanish, with English language proficiency sufficient for communicating in an international work environment.
- Regular online connectivity with access to the internet and availability by phone is a requirement.
- Commitment to the contracted tasks and availability for contributing deliverables over the 10 months of the project (until July 31, 2023).

Application procedure

Should we have caught your interest, please send us your abbreviated CV with related activities of the last 5 years, no longer than 3 pages with a cover letter stating the reason for your interest in the contractual work. We prefer applicants who have attended the sessions of the Connecting Collections workshop series in September that starts off the project. Attendance might be as a participant directly in the zoom session, or asynchronously by watching the sessions’ recording on YouTube. Review of applications will start September 26, 2022, the call will stay open until the three contracts have been

awarded..

For inquiries and additional information, please contact the project team at global_collections@spnhc.org

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Frankfurt Cultural Evolution

Announcement for a Research Fund - Ref. #01-22035

The Senckenberg Society for Nature Research was founded in 1817 and is one of the most important research institutions around biological diversity. At its eleven sites throughout Germany, scientists from over 40 nations conduct cutting-edge research on an international scale. The company's headquarters are in the Main metropolis of Frankfurt in the heart of Germany. It is also home to one of Senckenberg's best-known facilities, the Senckenberg Natural History Museum.

The Senckenberg Society for Nature Research, the Daimler and Benz Foundation, and the Werner Reimers Foundation will jointly bestow the Southeast-Asia Biocultural Evolution Research Fund for 2022-2024 ("Research Fund") for a research project in a thematic context of human evolution and palaeo-biodiversity in South-East-Asia.

At the Senckenberg Research Institute Frankfurt, we call for applications for the

Southeast-Asia Biocultural Evolution Research Fund 2022/2023

South-East-Asian palaeontological and palaeo-anthropological research at the Senckenberg Research Institute and Natural History Museum Frankfurt goes back to the world-renowned palaeontologist Gustav Heinrich Ralph von Koenigswald, who joined Senckenberg in 1968, funded by the Werner Reimers Foundation. The Gustav Heinrich Ralph von Koenigswald collection, housed at Senckenberg, includes Pleistocene hominid and hominin fossils, and faunal remains from the Sangiran Dome of Java in Indonesia, and provides great research potential for human evolutionary studies on early Homo as well as on faunal, environmental and ecological evolution of Southeast-Asia.

A two-year Research Fund is offered for an early stage scientist (m/f/d) from Indonesia or another Southeast-Asian country up to 5 years after the doctorate. The methodological approach of your planned research project can be chosen freely within the context of human evolution in Southeast-Asia. The project should contribute to the Senckenberg research program on Biocultural Evolution. Applicants must demonstrate a very good command of English.

Your (academic) profile

- You are holding an Indonesian citizenship, or a citizenship of another Southeast Asian country
- You have a doctorate in geosciences or life sciences
- The doctorate is no longer than 5 years ago
- You are affiliated to a university or an official research institution

Location: Your home institution, and temporarily Frankfurt
 Type of contract: Funding for 24 months / or:
 Period from 01.12.2022 - 30.11.2024. Benefits: The Research Fund comprises euro 2.500 monthly allowances, including travel support. Additional project funding for a research colloquium at Frankfurt or Bad Homburg, Germany, will be provided.

Senckenberg aims to increase the proportion of women. Qualified female candidates are therefore particularly encouraged to apply.

Are you interested?

We look forward to your application documents (in English language) mentioning the reference number (ref.#01-22035) sent as a single PDF document until 31.10.2022 by e-mail only.

Please include:

- Curriculum Vitae - Letter of motivation for your application for the Southeast-Asia Biocultural Evolution Fund 2022/2023 - Academic transcripts, grades and certification (e.g. Bachelor, Master, Diploma, PhD) - Brief description of your current activities (studies or professional activities) - One-page outline of your research plan - Letter of support (e.g. from a faculty member, supervisor or employer). This letter should be also written in English. - Applicants must demonstrate good language skills in English, e.g. in form of a certificate from a language test or language course.

Please send your application to:

Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt am Main E-Mail: recruiting@senckenberg.de

For more information on the Research Fund, please contact: Prof. Dr. Ottmar Kullmer via e-mail: ottmar.kullmer@senckenberg.de.

Yours sincerely

Isabel Gajcevic, M.A. Personalsachbearbeiterin

SENCKENBERG Gesellschaft für Naturforschung
(Rechtsfähiger Verein gemäß § 22 BGB) Senckenber-
ganlage 25

60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt
am Main (1. OG)

Telefon/Phone: 0049 (0)69 / 7542 -

Leiterin Personal & Soziales - 1458 Loke, Uta

Stellv. Leiterin Personal & Soziales - 1319 Elsen, Carina

Team Personalbeschaffung (Recruiting) - 1478 Gajcevic,
Isabel - 1564 di-Biase, Maria - 1204 Reitinger, Jasmin

Fax: 0049 (0)69 / 7542-1445

Mail: recruiting@senckenberg.de

Direktorium: Prof. Dr. Klement Tockner, Prof. Dr.
Angelika Brandt, Dr. Martin Mittelbach, Prof. Dr.
Andreas Mulch, Prof. Dr. Karsten Wesche; Präsidentin:
Dr. h.c. Beate Heraeus; Aufsichtsbehörde: Magistrat
der Stadt Frankfurt am Main (Ordnungsamt) Mitglied
der Leibniz-Gemeinschaft

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GeorgiaTech ComputationalGenomics

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

COMPUTATIONAL GENOMICS: The School of Biological Sciences (biosci.gatech.edu) at the Georgia Institute of Technology invites applications for tenure-track faculty positions in the field of computational

biology and genomics. Applicants will be considered at all ranks with priority given for exceptional candidates at the assistant or early-associate professor stage of their career. We especially encourage applications from candidates using evolutionary and statistical genetic methodologies for integrative genomic approaches to human/primate complex traits and precision health. Candidates are expected to demonstrate an exceptional commitment to the teaching and mentoring of students and to participate in our Bioinformatics Graduate Program. <https://biosciences.gatech.edu/about/jobs/3407> MICROBIOLOGY: As part of continuing growth in biology, the School of Biological Sciences (biosci.gatech.edu) at the Georgia Institute of Technology invites applications for a tenure-track faculty position in microbiology. We welcome applications from individuals working in all fields of microbiology, and we especially encourage people working in the fields of microbial ecology, environmental microbiology, and in situ microbiome function. Applicants will be considered at all ranks with priority given to exceptional candidates at the assistant or early-associate professor stage. <https://biosciences.gatech.edu/about/jobs/3406> CELLULAR AND MOLECULAR NEUROSCIENCE: The School of Biological Sciences (<http://biology.gatech.edu>) at the Georgia Institute of Technology invites applications for a tenure-track faculty position in the field of cell/molecular neurobiology. Applicants will be considered at all ranks with priority given for exceptional candidates at the assistant or early-associate professor stage of their career. Hiring objectives in neuroscience accommodate a wide range of subfields and study models centering on molecular and/or cellular neurobiology. We encourage applications from candidates performing fundamental studies of development, neurogenesis, plasticity, and/or behavior using cutting-edge techniques. Candidates are expected to demonstrate an exceptional commitment to the teaching and mentoring of students. <https://biosciences.gatech.edu/about/jobs/3408> Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff, students, and all other members of the Georgia Tech community, including affiliates,

invitees, and guests.

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

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ing@mcmaster.ca)

IllinoisStateU ComparativeAnimalPhysiology

TENURE TRACK FACULTY POSITIONS SCHOOL OF BIOLOGICAL SCIENCES ILLINOIS STATE UNI- VERSITY

The School of Biological Sciences at Illinois State Uni-
versity in Normal, IL (<https://biology.illinoisstate.edu/>)
invites applications for nine-month tenure-track posi-
tions in the following:

NEUROETHOLOGY at the Assistant Professor level.
We are looking for candidates who use non-traditional
model systems, including vertebrates, to study the neu-
ronal underpinnings of natural animal behavior. The
vision and anticipated leadership of our new colleague
will further expand the scope of, and emphasis on, our
existing programs in physiology, neuroscience, and be-
havior within the School of Biological Sciences. Our
new colleague should be able to teach undergraduate
courses in neuroscience and animal behavior for biology
and biomedical students and develop a graduate course
in their area of expertise. **COMPARATIVE ANIMAL
PHYSIOLOGY** at the senior Assistant or Associate
Professor level. This position is part of the Dr. Fred
Gletten Endowed Chair in Biological Sciences, which
comes with an endowed appointment for the first three
years with the possibility of reappointment. We are look-
ing for established candidates who conduct cutting-edge
research in comparative physiology that complements
our existing programs in physiology, neuroscience, and
behavior and expands the scope of, and emphasis on, our
environmental and health physiology research within
the School of Biological Sciences. Areas of inquiry may
include, but are not limited to developmental, environ-

mental, cardiac, hormonal, or reproductive physiology.
Candidates asking systems level questions in vertebrates
are particularly encouraged to apply. The new faculty
member will also contribute to teaching our undergrad-
uate and graduate courses in physiology and develop a
graduate course in comparative physiology or a related
discipline.

Successful candidates are expected to establish a rig-
orous, nationally recognized, extramurally funded re-
search program, publish scholarly research in quality,
peer-reviewed journals, advise and mentor B.S., M.S.,
and Ph.D. students in their research groups, and provide
effective instruction in their discipline. A Ph.D. in the
specific field of biology or a closely related field, and
tenure-track or equivalent experience or relevant post-
doctoral research experience or by position start date
are required based upon appointment level. State law
mandates demonstrable oral proficiency in the English
language as a requirement of this position. Salary is
competitive and commensurate with qualifications and
experience.

The School of Biological Sciences comprises 23 faculty,
approximately 65 graduate students (M.S. and Ph.D.),
and over 650 undergraduate majors. We value research
and teaching and offer a collegial environment fostering
research collaboration among ecologists, conservation
biologists, evolutionary biologists, cell and molecular
biologists, physiologists, and neuroscientists, as well as
opportunities for interdisciplinary collaborations within
the college or the university. The School of Biological
Sciences features modern microscopy, flow cytometry,
vertebrate and aquatic animal care and other shared
facilities. The University and the School of Biological
Sciences are committed to increasing the diversity and
inclusivity of the campus community, recognizing that
a diverse and inclusive faculty, staff, and student body
enriches the scholarly experiences for the ISU campus
and greater community. Candidates who have experi-
ence working with a diverse range of faculty, staff, and
students, and a demonstrated commitment to fostering
a diverse and inclusive community are encouraged to
apply. We are sensitive to the needs and invested in
the success of dual career partnerships. Please com-
plete a faculty application for posting number 514397
(Comparative Animal Physiology), and 514399 (Neu-
roethology) at <https://www.jobs.ilstu.edu>. Applicants
will be instructed to attach as a single pdf the following:
i) a cover letter, ii) curriculum vitae, iii) names and
e-mail addresses for three references, iv) a two-page
research statement, v) a one-page teaching statement,
vi) a one-page statement describing your interest in or
effort toward furthering diversity, equity, and inclusion,
and vii) PDFs of three representative publications. Re-

view of applications will begin on October 14, 2022, and continue until the positions are filled. Intended start date is August 16, 2023. Questions about the Comparative Animal Physiology search should be directed to Dr. Ryan Paitz (rpaitz@ilstu.edu), and the Neuroethology search to Dr. Wolfgang Stein (wstein@ilstu.edu).

ABOUT ILLINOIS STATE UNIVERSITY (<https://hr.illinoisstate.edu/prospective/>): We are a coeducational, residential university, with almost 21,000

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ImperialCollege London ClimateAdaptation

Job summary We are now seeking applications for an academic staff position (tenure track where appropriate) starting in the 2022-23 academic year in Climate Change and Environmental Biology, in the Department of Life Sciences. The appointee will conduct research in any suitable area, which may include metagenomic analysis. Research programmes which address intervention and remediation are particularly encouraged. The appointee will teach at the undergraduate and Master's level in suitable topic areas.

Appointees are expected to broaden the Department's research capabilities, while complementing our existing strengths (<https://www.imperial.ac.uk/life-sciences/research/research-themes/>).

We especially welcome applicants who are female or from other under-represented groups.

Duties and responsibilities Undertake original research at a high international standard in Climate Change and Environmental Biology.

Publish the results of this research in internationally recognised peer reviewed journals

Obtain external funding to support the research from Government Research Councils, Charity, Industry and other national and international funding agencies

Contribute to teaching and examination on appropriate courses of the undergraduate Biochemistry and Biological Sciences degree streams within the Department of Life Sciences

Contribute to teaching and examination on appropriate Master's courses within the Department of Life Sciences
Supervise MRes/MPhil/PhD research students

To undertake appropriate administrative tasks as directed by the Head of Department

To undertake necessary training and/or development

Essential requirements You should hold a PhD (or equivalent) in a discipline underpinning Climate Change and Environmental Biology.

A proven track record in conducting high quality independent research in Climate Change and Environmental Biology, as evidenced by high quality publications in peer reviewed journals.

Previous experience of teaching at either the undergraduate or the postgraduate level and ideally at both.

An ability to train undergraduate and postgraduate students in Climate Change and Environmental Biology.

Experience of preparing grant applications for submission.

An ability to raise significant research funding from a variety of sources, commensurate with your career stage.

An effective communicator, conveying ideas and concepts clearly and effectively to a range of audiences through a variety of methods and media.

Further information Summary of the levels:

Lecturer The appointee will be able to demonstrate their ability to produce independent research and will have developed the skills to take a more active role in teaching and supervision.

Senior Lecturer The appointee will have extensive professional experience and will be able to demonstrate a reputation in their field based on their achievements in either teaching or research. The appointee will be expected to demonstrate their independence through their body of original research work or record of teaching impact.

Applications may be made via the Imperial College London website: <https://www.imperial.ac.uk/jobs/-description/NAT01279/lecturer-senior-lecturer-climate-change-and-environmental-biology> Informal enquiries may be made to: Professor Anne Dell, (Head of Department; a.dell@imperial.ac.uk) or Professor Mark Isalan (Chair, Appointments Committee; m.isalan@imperial.ac.uk)

The College is a proud signatory to the San-Francisco Declaration on Research Assessment (DORA), which means that in hiring and promotion decisions, we evaluate applicants on the quality of their work, not

the journal impact factor where it is published. For more information, see: <https://www.imperial.ac.uk/research-and-innovation/about-imperial-research/research-evaluation/> The College believes that the use of animals in research is vital to improve human and animal health and welfare. Animals may only be used in research programmes where their use is shown to be necessary for developing new treatments and making medical advances. Imperial is committed to ensuring that, in cases where this research is deemed essential, all animals in the College's care are treated with full respect, and that all staff involved with this work show due consideration at every level. <http://www.imperial.ac.uk/research-and-innovation/about-imperial-research/research-integrity/animal-research/> "Masters, Geetika" <g.masters@imperial.ac.uk>

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MichiganStateU PlantEvolDevo

The Department of Plant Biology, jointly with the Departments of Biochemistry and Molecular Biology, Horticulture, and Plant, Soil, and Microbial Sciences at Michigan State University invites applications from outstanding candidates for an open-rank position in the broad area of plant developmental biology. With our desire to further diversify our community, we particularly encourage candidates from underrepresented groups to apply. Special consideration will be given to candidates with research foci that connect multiple scales of biological organization in an agricultural and/or natural system, address basic and/or applied grand-challenge problems in plant sciences, and employ state-of-the-art interdisciplinary approaches. This position will be appointed in the Department of Plant Biology and, if appropriate, jointly with one or more of the other three departments. In addition to developing a nationally recognized, externally funded research program, the successful candidate will be expected to contribute high-quality teaching and service/outreach. Meeting the position's research expectations will require obtaining external funding and publishing peer-reviewed papers in national and international journals and/or conference

proceedings. Teaching may include one undergraduate or graduate course per year as well as graduate and postdoctoral training. Service will include participation in campus and national/international programs. In addition, the successful candidate will contribute to the diversity, equity and inclusion efforts in the plant science community on campus.

Review of application will start in 11/1/2022. The anticipated start date is August 16, 2023. For more information on required materials and the application portal, see:

<https://careers.msu.edu/en-us/job/512054/-assistantassociatefull-professor-tenure-system> Shin-Han Shiu Professor Department of Plant Biology Department of Comp. Math. Sci., & Engr. Michigan State University <https://shiulab.github.io/> "Shiu, Shinhan" <shius@msu.edu>

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MichiganStateU TechnicianProjectManager EvolutionaryGenomics

NSF-funded technician/project manager position in evolutionary genetics and genomics available immediately in the Conner lab (<https://jeffreykconner.com/>) at Michigan State University's Kellogg Biological Station (<https://www.kbs.msu.edu/>). The lab studies mechanisms of adaptation by integrating genetics, genomics, ecology and evolution in the field, greenhouse, and growth chamber, using wild radish and Arabidopsis as model organisms. This project addresses the interaction of selection, pleiotropy, and drift in phenotypic evolution using parallel latitudinal and altitudinal clines in trait loss in Arabidopsis. The technician would manage and be involved in all aspects of this work, including extensive field work using near-isogenic lines and phenotypic manipulation in Italy, Spain, and Sweden, genomic tests of selection vs. drift, growth chamber common gardens, and lab identification of genes causing trait loss. Substantial publication opportunities available. B.S. degree required; M.S. preferred. Experience with, or a strong interest in, bioinformatics, molecular genetics, and field research necessary. Four years of funding available. Contact Jeff Conner (@JeffreyKConner; connerj@msu.edu) with questions; apply at <https://careers.msu.edu/en-us/job/512023/research-technologist-ii> The Conner Lab,

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

“Conner, Jeffrey” <connerj@msu.edu>

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NorthEasternU TeachingEvolution

Please help us share the job posting for the open Assistant/Associate Teaching Professor position within the Department of Marine and Environmental Sciences. Applications will be reviewed beginning September 1. We seek broadly trained candidates with expertise in areas such as social-ecological coupling, urban ecology, sustainable development, natural resource management and environmental/land use planning (with an emphasis on nature-based solutions), sustainability sciences, conservation biology, environmental water quality/restoration, or related fields. Link for the posting is below.

R107495 (Assistant/Associate Teaching Professor): https://northeastern.wd1.myworkdayjobs.com/-careers/job/Nahant-MA/Assistant-Associate-Teaching-Professor-Marine-and-Environmental-Sciences_R107495 K. E. Lotterhos, PhD (she/hers) Associate Professor Department of Marine and Environmental Sciences Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908 I respond to email mid-day on weekdays

k.lotterhos@northeastern.edu

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NottinghamTrentU CancerGenomics

Professor of Cancer Genomics, John Van Geest Cancer Research Centre Nottingham Trent University

Guardian University of the Year 2019; Times and Sunday Times Modern University of the Year 2018; THE 2017 University of the Year; these are just some of the accolades bestowed upon Nottingham Trent Uni-

versity. We are focused on 'Creating the University of the Future', transforming the lives of our students and, through them, the world in which we live.

We are doing this through empowering and creating opportunity for all our students and staff so as they may learn, discover, and enrich society locally, nationally, and internationally. Investment in people and facilities is a cornerstone to our success, including over 60 million in teaching and research facilities in the School of Science and Technology since 2016.

The opportunity We are seeking to appoint a committed and passionate academic with a clear vision and excellent interpersonal skills, as the new Professor of Cancer Genomics in the John Van Geest Cancer Research Centre (JvGCRC). You will develop, lead and inspire research, scholarship and/or practice activity which enhances the profile of JvGCRC and drives our mission to turn discovery into health by accelerating the translation of basic science towards patient tailored therapies. You will undertake personal research in an area relevant to the Centre and be appointable at Professorial level.

The John Van Geest Cancer Research Centre In 2008, the John and Lucille van Geest Foundation generously endowed Nottingham Trent University with a research grant of 8 million to establish a dedicated cancer research facility. The JvGCRC is a stand-alone purpose-built research facility within the School of Science and Technology (SST), which has an outstanding reputation for teaching and innovation. SST is home to multiple state-of-the-art research facilities, including the newly established 24m Medical Technologies Innovation Facility, and the new 23M Engineering building.

The JvGCRC promotes and prioritises initiatives in personalised cancer medicine using onsite 'omics' technologies/facilities (NanoString nCounter and GeoMx Digital Spatial Profiling platforms, Proteomics Suite, high-dimensional flow cytometry, 10X Genomics to perform single-cell RNA sequencing), computational biology/bioinformatics/big data analytics, and interfaces with clinical activities through national and international collaborators.

Our ambitions revolve around 1) understanding tumour-host interactions in a variety of models/conditions (e.g., acute myeloid leukaemia, breast, pancreatic and colon cancer, malignant glioma); 2) developing cancer immunotherapy approaches and anti-tumour vaccines using both in vivo and in vitro onsite pre-clinical facilities; 3) leveraging “big data” to resolve the molecular basis of cancer heterogeneity; 4) deciphering the composition and functional orientation of the tumour microenvironment; 5) discovering biomarkers for clinical use.

The Centre also undertakes commercial work with national and international partners and has generated two impact case studies during the previous REF period.

The JvGCRC is a unique, purpose-built scientific facility in the East Midlands helping drive Nottingham Trent University's health and wellbeing strategic theme, if you want to play your part in helping us save lives and speed recovery, please visit: Professor of Cancer Genomics, John Van Geest Cancer Research Centre (JvGCRC) - Nottingham Trent University §Anderson Quigley

Carolyn Coates <carolyn@andersonquigley.com>

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OkinawaInst EvolutionaryBiology

OIST.Japan.Faculty.LifeSciences

The Okinawa Institute of Science and Technology (www.oist.jp) is a dynamic and growing graduate university in Japan. We are inviting applications for tenure-track and tenured faculty positions.

Applications are invited in Life Sciences

OIST is actively seeking applications from women and underrepresented groups.

Successful candidates will have an opportunity to join our vibrant, collaborative, interdisciplinary research community. They will: - Establish and run an active independent Research Unit with generous internal funding, including funds for several research staff - Supervise and mentor PhD students, develop and teach graduate courses, and actively contribute to university services

- Receive access to cutting-edge core research facilities, including imaging, sequencing, instrumentation, nanofabrication, and high- performance computing, with dedicated support staff - Enjoy a competitive remuneration package with additional benefits, such as housing allowance

The starting date is negotiable.

Application deadline: October 17, 2022 at 12:59 PM JST

Visit <https://groups.oist.jp/facultypositions> for more information and to apply online.

OIST offers a world-class research environment and opportunities for cross-disciplinary research. We have no

departments, and we currently have 89 Research Units. English is the official language of the university, and the research community is fully international, with more than 50 countries represented. The campus is located on 85 hectares of protected forestland overlooking beautiful shorelines and coral reefs in subtropical Okinawa, Japan.

We are an equal opportunity educator and employer and are committed to enhancing and supporting diversity, equity, and inclusion in all aspects of the university community. As such, we are actively working to increase the diversity of our faculty, students, and staff, and cultivating an environment where all members can thrive and are valued. We have implemented policies to engender and cultivate a diverse, inclusive, and family-friendly culture. These include supporting dual career couples, gender neutral facilities, pro-active equity-focused policies including "stop-the-clock" options, an on-site bilingual childcare facility and after school programs, an on-site health center, and relocation and post-arrival support.

Inquiries:

Dr. Milind Purohit, Dean of Faculty Affairs faculty-recruiting@oist.jp

Kiyomi Cooley (she/her) Faculty Recruiting Assistant Faculty Affairs Office Okinawa Institute of Science and Technology

1919-1 Tancha, Onna-son Kunigami-gun Okinawa, Japan 9040495

Kiyomi Cooley <kiyomi.cooley@oist.jp>

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OmahaZoo LabTech GeneticsDiagnostic

Job Title: Genetics Diagnostic Laboratory Technician

Apply here: <https://www.paycomonline.net/v4/ats/-web.php/jobs/ViewJobDetails?job=37447&clientkey=-77B425C21C6E28F6E3B0849B4A14F1B5> Hours: Full-time

Duties and Responsibilities (include but not limited to):

- * Assist in care, maintenance, and utilization of department equipment and supplies. * Execute lab procedures and required tasks under supervision and independently.
- * Prepare solutions and media for molecular biology

applications. * Maintain cleanliness and sanitation in the laboratory while following all safety procedures. * Prepare standard operating procedures for molecular diagnostic tests. * Liaise with vet and animal care staff on sample collection. * Perform DNA extractions using various methodologies. * Quantitate DNA with fluorometer and qPCR. * Conduct various molecular diagnostic tests with PCR for animal diseases as needed, including testing trunk washes, feces, and blood for the presence of EEHV on a routine basis. * Responsible for troubleshooting and resolving problems regarding essential laboratory equipment. * Compile detailed and accurate documentation of all testing conducted. * Prepare and analyze data and report on results of molecular tests to department director, veterinarian staff and relevant zoo departments.

Qualifications, Knowledge, Skills, and Abilities:

* A bachelor's degree in biology, genetics, or related field and one year of associated work experience is required. An equivalent combination of further education and experience from which comparable knowledge and experience may be considered. * A thorough knowledge of molecular genetics and related techniques with a good understanding of biology and chemistry is required. Experience with qPCR is highly preferred. * Ability to understand and follow lab protocols and standard operating procedures. * Clear understanding of the metric system as well as conversion between various weight measures, and chemical calculations (e.g., molarities and pH). * Knowledge of basic computer programs is imperative with familiarity of QuantStudio design and analysis software preferred. * Detail oriented person who follows directions and meets deadlines. * Ability to effectively communicate and work with people of various backgrounds in a team environment

vicki.villanova@omahazoo.com

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PacificU EvolutionaryBiology

PacificUniversity.EvolutionaryBiology Tenure Track positions in (1) Animal Physiology and (2) Evolution). The Biology Department at Pacific University invites applications for two tenure-track positions in (1) Animal Physiology and (2) Evolution to begin August 2023. We seek new colleagues who bring promise for excellence in both teaching and mentorship of undergraduate researchers. Teaching will include 3-4 lectures and 2-3 labs per year, including a rotation of introductory biology, 1-2 upper division electives with labs in areas of expertise, and Advanced Research Methods. The focus and study systems are open; we are particularly interested in research programs that include both field and lab components, address conservation issues, work across levels of biological organization, and/or are interdisciplinary or collaborative. See our full position description for details about application materials, teaching and research expectations and support, and the application process. We anticipate the appointment will be at the Assistant Professor level, but Associate Professor rank may be considered. Apply for Animal Physiology at <https://www.paycomonline.net/v4/ats/web.php/jobs/ViewJobDetails?job=47723> and for Evolution at <https://www.paycomonline.net/v4/ats/web.php/jobs/ViewJobDetails?job=47740>. Review begins October 3, 2022. Submit cover letter, CV, teaching statement, research statement, EDI statement, and list of three references as directed in instructions.

Christopher N Templeton, PhD (he/him) Associate Professor of Biology, PacificUniversity 2043 College Way, Forest Grove, Oregon 97116 503-352-3149

<https://christempleton.github.io> The content of this message and all attachments are confidential and intended only for the recipient(s) specified above. Please do not share any part of this message without written consent.

Chris Templeton <templeton@pacificu.edu>

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PrincetonU EvolutionaryBiology

Please see below re multiple open faculty positions in evolutionary biology at Princeton University. For anyone interested, the search committee will host a Q&A webinar on Sept 21st, 12-1pm Eastern Time at this link: <https://princeton.zoom.us/j/97229759009> (no registration required).

Princeton University's Department of Ecology and Evolutionary Biology is seeking candidates for multiple faculty positions in evolutionary biology. We anticipate hiring at the assistant professor level, though exceptional candidates at a more senior level are encouraged to apply.

We seek scholars who work broadly in evolutionary biology and are eager to interact with a vibrant and interdisciplinary group of colleagues. Successful candidates will address bold questions through rigorous, creative, and integrative approaches. Beyond this, the range of possible research areas within or intersecting evolutionary biology should be understood as broadly as possible. We are excited to consider research focused across any evolutionary timescale, at any level of biological hierarchy (e.g., molecules to ecosystems or even human social systems), and employing any methodological approach (e.g., empirical, computational, theoretical).

Princeton University is an interactive community that fosters cross-disciplinary thought and collaboration. Successful candidates will have opportunities to interact with colleagues across different departments, programs, and institutes including the Lewis Sigler Institute for Integrative Genomics, the Princeton Neuroscience Institute, the Program in Applied and Computational Mathematics, the Center for Statistics and Machine Learning, and the High Meadows Environmental Institute.

Applicants should submit a vision statement, no longer than two pages, that outlines the bold question(s) they would pursue within their first 5 years and that places those questions broadly in the context of major unsolved problems in their field(s). In this respect, the vision statement should draw on, yet go beyond a summary of the applicant's prior and current research. In addition to the vision statement, applications need to include a cover letter, curriculum vitae, three reprints, and contact information for three references. All documents should be submitted online via <https://www.princeton.edu/acad->

[positions/position/27384](#). Screening of applications will begin November 1, 2022.

Lindy McBride <csm7@princeton.edu>

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RBG Kew Bioinformatician PlantTreeofLife

Bioinformatician (Completing the Plant Tree of Life Project)

The Royal Botanic Gardens, Kew (UK) is establishing a new benchmark in plant biology by completing the plant tree of life, mining Kew's collections with novel genomic methods and generating DNA data unprecedented in scale and diversity. Over the past six years, we have assembled genomic data for over half of the 13,600 genera of flowering plants, making them publicly available on-line and using them in an extensive scientific research programme. We have recently secured major new funding and are now building a team to finish the job. We're looking for a highly motivated, collaborative expert to play a central role in delivering the bioinformatic requirements of the project.

The successful candidate will join an established, vibrant, multi-disciplinary team of scientists. In collaboration with existing project informaticians, you will be responsible for analysing and managing project data, as well as developing software to enable the construction of a complete tree of life for plants.

You will be an excellent bioinformatician or software engineer with appropriate professional experience and a proven background in genomic data manipulation and management, ideally in a research environment. You will have a track record of helping to design and build robust bioinformatics pipelines, with experience of high-performance computing, relevant programming languages (such as Python) and relational databases. Expertise in phylogenomics is desirable but not essential. You will be a proven team player, with the ability and appetite to deliver project outputs, outreach, and to train and support researchers and students as required.

This role is based at Kew with the option of regular home working, subject to operational requirements.

The salary will be $\pounds 32,000$ - $\pounds 37,000$ per annum (pro rata), depending on skills and experience, plus benefits

package.

To apply, complete the online form, applicants must also upload 1) a letter of motivation and 2) a full CV, including details of publications and software. <https://careers.kew.org/vacancy/bioinformatician-completing-the-plant-tree-of-life-project-500729.html>
DEADLINE 11 October 2022

The Royal Botanic Gardens, Kew is a non-departmental public body with exempt charitable status, whose principal place of business is at Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE, United Kingdom.

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William Baker <W.Baker@kew.org>

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

RutgersU PartTime PopulationGenomics

Position Summary

The Global Change Biology Research Group (<https://pinsky.marine.rutgers.edu/>) in the Department of Ecology, Evolution, and Natural Resources at Rutgers University (NJ, USA) is searching for an organized, enthusiastic, and skilled population genomics researcher. This position is half-time (19.5 hours per week). We use population genomics and data science to study global change biology, particularly in coastal marine environments. Collaborative projects address bats, bees, and wildlife biology research on land and in the ocean.

The researcher will coordinate the population genomics lab, manage research projects locally and nationally, maintain and promote open science practices, and assist with maintaining a collaborative and supportive research environment for all members.

We offer an interdisciplinary work environment, opportunities to be involved in a wide range of research projects, extensive opportunities for learning and professional development, and the expectation of co-authorship on scientific manuscripts. We value a healthy work-life balance and actively anti-racist practices.

The work environment will primarily be a molecular ecology lab and an office. Fieldwork will be infrequent but may be diverse, remote, physically challenging, or involve international travel. Sample collection could involve SCUBA diving or hiking. Work may require lifting 30 pounds.

Benefits

This is a one-year, half-time position. Pay will be \$25-\$30 per hour (depending on experience) for 19.5 hours per week. Start date is flexible, but early fall is preferred.

Knowledge and Experience

- A Bachelor's degree in a related scientific specialty or discipline, or an equivalent combination of education and/or experience that demonstrates comprehensive knowledge and understanding of research principles and practices. - Experience building population genomic libraries, with lab relevant equipment, developing bioinformatic pipelines, and conducting population genomics analyses is preferred but not required. - Computer liter-

acy in R and a commitment to open science practices.
 - Excellent written and oral communication skills. -
 Exceptional organizational skills and strong ability to
 accomplish tasks independently

Applications

To apply, please send a cover letter that describes your interest in and qualifications for the position, a curriculum vitae, and the contact information for three references to Malin Pinsky (malin.pinsky@rutgers.edu). Please combine all components of the application into a single file, and include "Molecular Ecology Researcher" in the subject line. Review of applications will begin on September 6, 2022, continue until the position is filled.

Malin Pinsky <malin.pinsky@gmail.com>

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RutgersU ResearcherPartTime PopulationGenomics

Position Summary The Global Change Biology Research Group (<https://pinsky.marine.rutgers.edu/>) in the Department of Ecology, Evolution, and Natural Resources at Rutgers University (NJ, USA) is searching for an organized, enthusiastic, and skilled population genomics researcher. This position is half-time (19.5 hours per week). We use population genomics and data science to study global change biology, particularly in coastal marine environments. Collaborative projects address bats, bees, and wildlife biology research on land and in the ocean.

The researcher will coordinate the population genomics lab, manage research projects locally and nationally, maintain and promote open science practices, help with research group administration, and assist with maintaining a collaborative and supportive research environment for all members.

We offer an interdisciplinary work environment, opportunities to be involved in a wide range of research projects, extensive opportunities for learning and professional development, and the expectation of co-authorship on scientific manuscripts. We value a healthy work-life balance and actively anti-racist practices.

The work environment will primarily be a molecular ecology lab and an office. Fieldwork will be infrequent but may be diverse, remote, physically challenging, or

involve international travel. Sample collection could involve SCUBA diving or hiking. Work may require lifting 30 pounds.

Benefits This is a one-year, half-time position. Pay will be \$25-\$30 per hour (depending on experience) for 19.5 hours per week. Start date is flexible, but sooner is preferred.

Knowledge and Experience A Bachelor's degree in a related scientific specialty or discipline, or an equivalent combination of education and/or experience that demonstrates comprehensive knowledge and understanding of research principles and practices. Experience building population genomic libraries, with relevant lab equipment, developing bioinformatic pipelines, and conducting population genomics analyses is preferred but not required. Computer literacy in R and a commitment to open science practices. Excellent written and oral communication skills. Exceptional organizational skills and strong ability to accomplish tasks independently

Applications To apply, please submit a cover letter that describes your interest in and qualifications for the position, a curriculum vitae, and the contact information for three references through <https://jobs.rutgers.edu/-postings/179676>. Review of applications is ongoing and will continue until the position is filled.

Please contact Malin Pinsky (malin.pinsky@rutgers.edu) with questions.

Malin Pinsky <malin.pinsky@gmail.com>

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SmithCollege Genomics

Assistant Professor - Genomics

Smith College is seeking a biologist with expertise in genomics to fill a tenure-track position as Assistant Professor of Biology beginning July 1, 2023.

A strong background in the generation and analysis of genetic and genomic data, a PhD by the time of appointment, and a commitment to undergraduate education are essential; postdoctoral experience is highly desirable. Teaching responsibilities will include rotating participation in our core courses (most commonly in our 200-level courses in genetics), a 300-level course and associated laboratory in genomics, and an advanced seminar in the candidate's area of expertise. The chosen candidate

must demonstrate a commitment to developing an active research program that incorporates undergraduate researchers. We are hoping to attract applicants whose research interests complement and broaden the existing expertise in our department. We welcome applicants working in any system (model or non-model) whose research uses a combination of experimental and computational approaches in pursuit of basic or applied questions in genomics.

State-of-the-art resources at Smith include the Centers for Molecular Biology, for Microscopy & Imaging, for Proteomics and for Design and Fabrication, as well as the Botanic Garden, an accredited animal care facility including an extensive zebrafish breeding facility, and a high performance computing center. The new faculty member will have opportunities to collaborate with Smith College's programs in Biochemistry, Computer Science, Environmental Science and Policy, Neuroscience, and Statistics & Data Sciences. In addition, the Five College Consortium (comprising Smith, Amherst, Mount Holyoke, and Hampshire Colleges and the University of Massachusetts at Amherst) provides a rich intellectual and cultural life for faculty and students, as well as opportunities for collaborative research and mentoring of doctoral students.

Diversity and a culture of inclusion among students, faculty, administration, staff, and curriculum are crucial to the mission and values of Smith College. We expect candidates to be active participants and allies in pursuit of these goals. Smith welcomes applicants from a range of backgrounds including, but not limited to, those based on ability, age, ethnicity, gender, gender identity, national origin, race, religion, sexual orientation and veteran status. Smith College is committed to providing an accessible application process for individuals with disabilities and encourages applicants to request any needed accommodation(s).

Smith College is an EO/AA/Vet/Disability Employer. Women, candidates from traditionally excluded groups, veterans and individuals with disabilities are encouraged to apply.

Submit application at <https://apply.interfolio.com/113025>. Applications consist of a cover letter, curriculum vitae, a teaching statement, a research statement, a diversity statement addressing commitment to enhancing access and inclusion, and the names and contact information of three potential sources willing to submit confidential letters of recommendation on the candidate's behalf. Please direct any questions about the position or the application process to Prof. Robert Dorit (rdorit@smith.edu). Review of

applications will begin on October 3rd, 2022, and will

continue until the position is filled.

Laura Katz <lkatz@smith.edu>

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StetsonU TeachingEvolution

Below find a job posting for a position in our Biology Department at Stetson. We are a small liberal arts PUI with a focus on undergraduate research. Please disseminate this as far as you like as we are not looking for a specific taxon as research focus.

COLLEGE OF ARTS AND SCIENCES POSITION: Assistant Professor of Biology Stetson University seeks applications for the position of tenure-track Assistant Professor of Biology. This is a full time, 9-month position beginning in August 2023.

QUALIFICATIONS: We seek a dedicated teacher-scholar who will be an excellent teacher, engaged undergraduate research mentor, and productive scholar. A Ph.D. in a biological science with a research focus at the organismal level is required. Postdoctoral experience is strongly recommended. While our search is broad and we will consider candidates with any taxonomic specialty, specific expertise in behavioral, ecological, or physiological biology is preferred. The successful candidate will have demonstrated excellence in teaching undergraduates, an ability to mentor undergraduate research projects, and a record of scholarly publication in their area of expertise. Candidates also should have a strong commitment to innovative teaching and academic advising of undergraduates. We are particularly interested in candidates with experience or interest in engaging students from diverse backgrounds.

RESPONSIBILITIES: As a liberal learning institution, Stetson focuses on education of the whole student through a strong foundation in General Education, deep disciplinary training, and experiential learning. Thus, this tenure-track faculty position has a strong focus on teaching, advising, and mentoring of undergraduate research. The combined teaching load is equivalent to three course units per semester, which typically ranges from 9 to 12 contact hours per week. Primary teaching responsibilities include upper-division courses in the field of expertise (the ability to teach an upper division course in either physiology or vertebrate anatomy is desirable), introductory biology courses, and mentor-

ing of capstone senior research projects. All majors in the College of Arts and Sciences complete a Senior Project, and therefore mentoring undergraduates as researchers is a key responsibility. As teacher-scholars, candidates will be expected to be excellent teachers and pursue a vibrant research program. The candidate will also provide academic advising for undergraduates each semester. University service and/or leadership are also expected commensurate with rank. For more information on our expectations in teaching, scholarship, and service our tenure policies, and our support for faculty development, please see the Office of the Provost and Academic Affairs website: <http://www.stetson.edu/administration/provost/index.php>. Stetson University is committed to ongoing development of faculty and offers opportunities such as professional development workshops and internal grants through its Brown Center for Faculty Innovation and Excellence and faculty travel support.

THE DEPARTMENT: The Biology Department (<http://www.stetson.edu/other/academics/programs/-biology.php>) consists of eleven tenured or tenure-track full-time faculty members with areas of expertise in molecular biology, genetics, physiology, plant ecology, neurobiology, cancer biology, microbiology, and aquatic and terrestrial ecology. We emphasize small classes and investigative research in and out of the classroom. For examples of collaborative research with students across the University, see “Stetson Showcase” at <http://www.stetson.edu/other/research/showcase.php>. THE COLLEGE OF ARTS AND SCIENCES: Stetson’s College of Arts and Sciences (<http://www.stetson.edu/-portal/artsci/>) is the largest and most diverse of the University’s colleges and schools. With nineteen academic departments and nine interdisciplinary programs, the College is the liberal arts core of the University; it includes the humanities, social sciences, natural sciences, education, and creative arts. A great strength of the College is its faculty of approximately 140 full-time teacher-scholars. The College offers 31 undergraduate majors and 34 undergraduate minors; six graduate degrees are offered in Education, Counselor Education, and Creative Writing. Every undergraduate major requires a senior research project, giving students the opportunity to design and carry out independent research under faculty mentorship. Our academic programs are shaped by the values of social justice and civic responsibility. All of our courses and programs of study promote engaged learning, whereby students create connections between the classroom or

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To read the entire message look it up at <http://life.biology-mcmaster.ca/~brian/evoldir.html>

TriCEM DukeU Evolutionary Medicine

The Triangle Center for Evolutionary Medicine (TriCEM, www.tricem.org) at Duke University seeks to hire a Postdoctoral Associate to serve as Assistant Director of the TriCEM program. Applicants should have a Ph.D. and demonstrated experience in evolutionary medicine, scientific communication, and interdisciplinary research. Evidence of successful grant writing, an innovative mindset, excellent organizational abilities, and research experience in one of TriCEM’s tracks (see below) are essential for the position. The applicant is expected to launch new initiatives that advance TriCEM’s goals in education and research, including leading efforts to secure external grant funding and run funded projects. The Assistant Director will also play a major role in TriCEM programming, including events on campus, evaluation of research proposals, and organizing the Evolutionary Medicine Summer Institute (EMSI). The Assistant Director is expected to maintain TriCEM’s social media and web presence and to engage in public outreach.

The position will be available initially for one year, with the potential for renewal. Pay will be commensurate with experience level. The position will provide training and mentoring from the Director and Associate Directors, with opportunities for sharing outcomes at conferences and in publications.

TriCEM is supported by Duke, NC State University, UNC Chapel Hill, and NC Central University. TriCEM is an incubator for interdisciplinary research that aims to improve understanding of human, animal and plant health through the application of evolutionary and ecological principles. TriCEM initiatives are organized around four “tracks” that capture central themes in evolutionary medicine: Pathogenic and Commensal Organisms, Cancer and Evolution, Brain Sciences, and Social and Biological Determinants of Health. TriCEM also supports research in One Health, i.e., the concept that the health of humans, animals and the environment are interconnected.

The position will start on or after October 10. Applicants should submit a CV and a cover letter that

identifies relevant experience and interests in relation to the above description, and how this postdoctoral opportunity fits into the applicant's longer-term career goals. The application and cover letter should also include the names and contact information of up to three people who can be contacted to provide letters of reference (please do not send letters in advance of requests).

To apply to this position please upload a cover letter, C.V., and contact information for 3 references to Academic Jobs Online at <https://academicjobsonline.org/ajo/jobs/22878> No paper applications will be accepted unless specifically solicited. Questions may be directed to Dr. Charles Nunn at clnunn@duke.edu.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or veteran status.

Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas-an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

Charles L. Nunn, Ph.D.

Gosnell Family Professor in Global Health

Department of Evolutionary Anthropology & Duke Global Health Institute

Director of Graduate Studies, Evolutionary Anthropology Director, Triangle Center for Evolutionary Medicine (TriCEM < <https://tricem.org/> >)

<https://sites.duke.edu/thenunnlab/> <https://sites.duke.edu/bassmadagascar/> (919) 986-8554

clnunn@duke.edu

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TrinityU EvolutionaryGenetics

Tenure Track Assistant Professor Genetics Trinity University

Trinity University Department of Biology invites applications for a full-time tenure track assistant professor of Biology with a concentration in Genetics. Trinity University is a nationally recognized, small, private liberal arts and sciences university that values and supports high-quality undergraduate teaching side-by-side with high-impact research involving active undergraduate participation. The Biology Department faculty regularly achieve important outcomes in these areas.

Applicants must possess an earned doctorate in some aspect of biology where genetics/genomics was a key component of her/his scholarship and demonstrate qualifications for teaching excellence at the undergraduate level. Applicants with a broad range of research objectives and approaches, who have a research plan that incorporates extensive participation by undergraduate students, will be considered. Postdoctoral research experience is strongly preferred. The successful applicant will teach an upper division majors' course in Genetics and contribute to development and teaching of the Biology introductory core. The search committee is especially interested in candidates who, through research, teaching and/or service, have demonstrated commitment to inclusive teaching practices and who will contribute to diversity and excellence in our campus community.

The Department of Biology (<https://new.trinity.edu/-academics/departments/biology>) is composed of 13 faculty with diverse research interests and serves majors in Biology, Biochemistry and Molecular Biology, Environmental Studies, Global Public Health and Neuroscience. Shared facilities and instrumentation supporting this position include an OLAW certified animal facility, a confocal microscope, a flow cytometer, a Typhoon imager and a 42 node (each with 36 cores) HPC cluster, among other resources. Development resources include summer stipends and internally funded fellowships for summer research students. Trinity is located in San Antonio, a large, vibrant, cosmopolitan city located in south central Texas. Trinity maintains collaborations with several biomedical research centers in the San Antonio area and faculty have access to core facilities and other major instrumentation. Trinity University is a prestigious, selective liberal arts institution, with over

11,000 applications, and approximately 650 first-year students in the Class of 2026. Discover more about Trinity University.

Trinity University is an equal opportunity employer and as such provides equal opportunity for employment and advancement of all employees without regard to race, color, religion, sex, age, national origin, disability, military/veteran status, sexual orientation, gender identity, gender expression, or any status protected by Federal, State, or Local Laws.

Trinity University is committed to the values of intentional inclusion. Please provide a brief statement (250-500 words) describing your past efforts as well as your future plans to advance diversity, equity and inclusion in your teaching, research, or other professional activities. Applicants should also electronically submit a cover letter, curriculum vitae, statement of teaching philosophy, research plan (including past accomplishments and future plans) and contact information for three references to Prof. James Shinkle, Chair of Search Committee, Department of Biology, Trinity University, One Trinity Place, San Antonio, TX 78212. Email applications to Biology@trinity.edu. Review of applications will begin October 17, 2022. Women and minority candidates are strongly encouraged to apply.

Troy G. Murphy, Ph.D. Associate Professor, Biology
Trinity University One Trinity Place San Antonio TX
78212

Phone (office): 210-999-8916
Email: tmurphy@trinity.edu Web-
page: www.finchwrangler.com Troy Murphy
<tmurphy@trinity.edu>

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TUMunich Two
ComputationalPlantBiol
SystemsBiol

Tenure Track Assistant Professor in »Computational
Plant Biology «

The Technical University of Munich (TUM) invites applications for the position of Tenure Track Assistant Professor in »Computational Plant Biology « to begin as soon as possible. The position is a W2 fixed-term (6-year) tenure-track professorship with the possibility

for promotion to a tenured W3 (Associate Professor).

Scientific environment The professorship will be assigned to the Department Molecular Life Sciences at the TUM School of Life Sciences, which is located at the interdisciplinary campus Freising-Weihenstephan.

Responsibilities The responsibilities include research and teaching as well as the promotion of early-career scientists. We seek to appoint an expert in the research area of genome organization and function of wild and crop plants with a focus on the elucidation of genotype-phenotype relationships. Teaching responsibilities include courses in the university's bachelor and master programs, especially in the field of bioinformatics and genomics.

Qualifications We are looking for candidates who have demonstrated initial scientific achievements and the capacity for independent research at the highest international level. A university degree and an outstanding doctoral degree or equivalent scientific qualification, as well as pedagogical aptitude, are prerequisites. Substantial research experience abroad is expected. We are looking for a candidate with the proven ability to work and communicate in a highly interdisciplinary scientific environment. (please see www.tum.de/en/faculty-recruiting-faq/ < <https://www.tum.de/en/about-tum/-working-at-tum/faculty-recruiting/faqs> > for further information).

Our Offer Based on the best international standards and transparent performance criteria, TUM offers a merit-based academic career path for tenure track faculty from Assistant Professor through a permanent position as Associate Professor, and on to Full Professor. The regulations of the TUM Faculty Re-cruitment and Career System apply. TUM provides excellent working conditions in a lively scientific community, embedded in the vibrant research environment of the Greater Munich Area. The TUM environment is multicultural, with English serving as a common interface for scientific interaction. The TUM School of Life Sciences provides shared IT services and computing facilities (Leibniz Rechenzentrum) as well as access to all core facilities on campus. TUM offers attractive and performance-based salary conditions and social benefits. The TUM Munich Dual Career Office (MDCO) provides tailored career consulting to the partners of newly appointed professors. The MDCO assists the relocation and integration of new professors, their partners and accompanying family members.

Your Application TUM is an equal opportunity employer and explicitly encourages applications from women. The position is suitable for disabled persons. Disabled candidates with essentially the same qualifica-

tions and scientific performance as other candidates will be given preference. Application documents should be submitted in accordance with TUM's application guidelines for professors. These guide-lines and detailed information about the TUM Faculty Recruitment and Career System are available at www.tum.de/faculty-recruiting < <https://www.tum.de/en/about-tum/working-at-tum/faculty-recruiting> >. Here you will also find TUM's information on collecting and processing personal data as part of the application process. Please send your application no later than September 30, 2022 to the Dean of TUM School of Life Sciences, Prof. Ingrid Kogel-Knabner, Alte Akademie 8, 85354 Freising. Email address for applications: application-schooloffice@ls.tum.de.

Kontakt: application-schooloffice@ls.tum.de

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 Tenure Track Assistant Professor in »Data Science in Systems Biology«

The Technical University of Munich (TUM) invites applications for the position of Tenure Track Assistant Professor in »Data Science in Systems Biology« to begin as soon as possible. The position is a W2 fixed-term (6-year) tenure-track professorship with the possibility for promotion to a tenured W3 (Associate Professor).

Scientific environment The professorship will be assigned to the Department Molecular Life Sciences at the TUM School of Life Sciences, which is located at the interdisciplinary campus Freising-Weihenstephan.

Responsibilities The responsibilities include research and teaching as well as the promotion of early-career scientists. We seek to appoint an expert in

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UAlabama TeachingEvolution

The Department of Biology/College of Arts and Sciences (CAS) at the University of Alabama at Birmingham (UAB) seeks candidates for a full-time, nine-month, non-tenure-earning Assistant Professor (Teaching Faculty) position in Biology.

The primary responsibility of the successful candidate will be to develop and teach lower division biology courses, including laboratories, for non-science majors as well as biology students. The ideal candidate will be able to educate, excite and inspire students about a broad range of biology topics.

Candidates with demonstrated teaching expertise in large classroom environments are especially encouraged to apply. Non-tenure-track teaching positions in the Biology Department are eligible for promotion and are provided with substantial opportunities for professional growth and long-term contributions to education at UAB.

UAB is a Carnegie Level 1 research university and academic health center named the Top Young University in the U.S. (Times Higher Education World University Rankings) and America's #1 ranked Large Employer and #4 ranked employer for Diversity (Forbes, 2021).

Please see the department website for more information: <https://www.uab.edu/cas/biology/>. With over 22,500 students and 2,459 full-time faculty members, UAB ranks in the top 20 public universities for federal research funding and is the major teaching-research university in Alabama. Interdisciplinary scholarship and teaching are prominent, and the Department of Biology collaborates closely with multiple units across campus. The Birmingham metro area is one of the largest in Alabama, offering a vibrant and diverse cultural community with a wide array of recreational opportunities.

See more here: <https://uab.peopleadmin.com/postings/-16801>

UCalifornia Davis EvolutionaryAnthropology

Assistant Professor in Evolutionary Anthropology The Department of Anthropology at the University of California, Davis invites applications for a tenure-track Assistant Professor focused on evolutionary approaches to understanding contemporary human behavioral and cultural diversity. Applicants must have a record of original research and publication, and a clear plan for a continuing program of theoretically-driven research based in field and/or laboratory work. Examples of research areas include, but are not limited to, behavioral/cultural variation in diet, reproduction, health outcomes, child development, cooperation, conservation management, and social networks. Teaching responsibilities will in-

clude 4 quarter-length courses per year, typically one larger lower division class (e.g. Human Evolutionary Biology, Evolution of the Human Life Cycle), two upper division classes, and one graduate seminar. The candidate will supervise graduate and undergraduate student research.

Applicants should submit: (1) a cover letter; (2) curriculum vitae; (3) a statement that describes their current and future research; (4) a statement of contributions to diversity, equity, and inclusion [<https://academicaffairs.ucdavis.edu/guidelines-writing-diversity-statement>]; and (5) the names and contact details of three referees. Applications must be submitted online at: <https://recruit.ucdavis.edu/JPF05216>. To ensure full consideration, applications should be complete by November 16th, 2022. The expected start date for this position is July 1, 2023.

Cristina Moya Assistant Professor Department of Anthropology University of California at Davis website

Cristina Moya <cristina.m.moya@gmail.com>

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UCalifornia Los Angeles Evolutionary Genetics

Hispanic Serving Institution Initiative Tenure Track Assistant Professor Joint in Society and Genetics and Integrative Biology and Physiology

POSITION DESCRIPTION UCLA's Institute for Society and Genetics (ISG) and Department of Integrative Biology and Physiology (IBP) are jointly recruiting a tenure-track Assistant Professor faculty member to have a split appointment in both departments. We are looking for a scholar 1) whose research addresses fundamental physiological, cellular, and/or molecular processes in a way that integrates (or plans to integrate) social or societal dimensions and 2) who can successfully mentor Latinx undergraduate, graduate, and postdoctoral students and trainees.

Candidates may come from any biological discipline (including biological anthropology or public health). Research field, physiological system, and methodological approach (e.g., wet lab, model systems, computational) are open as well. Preference will be given to scholars who creatively articulate how their current or future re-

search engages physiological mechanisms that integrate the biological (e.g., DNA repair, epigenetics, cellular dynamics, circadian rhythm, hormonal signaling, microbiome, or metabolic integrity) and the social or societal (e.g., touch, care, kinship, networks, foodways, pollution, housing, migration, or displacement). Special consideration will be given to scholars whose research also intersects questions of health, wellbeing, and/or disease affecting Latinx individuals or communities including indigenous and Black Latinx populations especially in the USA.

The Institute for Society and Genetics (<https://socgen.ucla.edu/>) is a multidisciplinary department of social scientists, life scientists, and humanists analyzing complex problems at the interface of biology and society and training crossdisciplinary thinkers. The Department of Integrative Biology and Physiology (<https://www.ibp.ucla.edu/>) employs experimental, computational, and quantitative approaches to study diverse physiological systems, this has enabled discoveries of how molecules, cells, tissues, and organisms solve biological problems essential for life. Successful candidates should be able to articulate their research and mentoring in ways that contribute to both scholarly communities.

This search reflects the UCLA Division of Life Science's commitment to diversify scientific research and training and to support a new generation of underrepresented minority scholars and trainees (especially from Latinx, Black, and Native American backgrounds). UCLA aims to achieve federal designation as a Hispanic Serving Institution by 2025. In preparation for this designation, the Office of the Chancellor and the Executive Vice Chancellor and Provost have sponsored this search in order to recruit exceptional scholars whose teaching, scholarship and/or mentoring has strong ties to Latinx experiences in the United States. This search is conducted in partnership between the Chicano Studies Research Center and three units in the Life Sciences Division the Institute for Society and Genetics (ISG), the Department of Integrative Biology and Physiology (IBP), and the undergraduate Neuroscience IDP (uN-SIDP). Faculty hired through this search are expected to maintain an active affiliation to the Chicano Studies Research Center and encourage the success of Latinx and first-generation scholars. The HSI initiative prioritizes the hiring of exceptional scholars who have connections to Latinx experiences in the USA through their research, teaching, and/or mentoring.

Applicants must have a Ph.D. or equivalent degree in any relevant discipline. To apply, access the recruitment via this direct link <https://apptrkr.com/3438325> on the UCLA Academic Recruit website. The following materials are required: 1) a cover letter introducing the

candidate and articulating a vision for research, teaching, and mentorship at the intersection of biology and society; 2) full curriculum vitae; 3) a description of research plans (2-3 pages); 4) a statement on teaching and mentoring (1-2 pages); 5) a statement on contributions to equity, diversity, and inclusion (1-2 pages); 6) three letters of reference. Initial review of applications will begin on October 17, 2022 and continue until the position is filled. We highly encourage applications from women, underrepresented minorities, and individuals with a commitment to mentoring underrepresented groups in the sciences.

Finalists will be invited to present their research at a 2-day symposium at UCLA on December 12 and 13, 2022.

The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and



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UCalifornia SantaCruz EvolutionaryBehaviour

Job: Tenure-track Assistant Professor in Animal Behavior UCSC

Due: Nov. 1st 2022

The EEB (<https://www.eeb.ucsc.edu/>) department at the University of California, Santa Cruz is starting a job search for a tenure-track assistant professor in animal behavior. We are seeking candidates who investigate behavior from any of these perspectives: ecological, evolutionary, mechanistic, developmental, or functional aspects of non-human animal behavior. The ideal candidate will also use equitable, inclusive, and engaging methods to teach upper-division Behavioral Ecology and other courses in their field of expertise.

UC Santa Cruz and the EEB Department value diversity, equity, and inclusion. We especially welcome candidates who understand the barriers facing women and histori-

cally excluded groups who are underrepresented in the classroom and in higher education careers (as evidenced by life experiences and educational background). Our EEB Department is collegial, congenial, creative, and family-friendly, and it strives to increase diversity at all career stages while centering teaching and research practices around inquiry-based problem-solving.

The official job announcement can be found at <https://-recruit.ucsc.edu/JPF01366> . Contact: Dr. Rita Mehta (rmehta2@ucsc.edu)

Matthew Kustra <mkustra@ucsc.edu>

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UCologne PlantEvolution

The University of Cologne invites applications for a Professorship in Plant Ecology & Genetics/Genomics (W2)

YOUR TASKS

Your research will unfold at the cross-road between genetics or genomics with plant ecology, ecosystem dynamics, landscape variation, plant communities and/or conservation biology. Your research will advance our understanding of the molecular mechanisms that contribute to ecological specialization in plants. You are expected to teach at undergraduate and graduate levels in Biology, especially in the field of Plant Ecology and Organismic Biology and Statistics applied to complex data.

YOUR PROFILE

Candidates should have outstanding achievements in the field of Ecological Genetics and/or Ecological Genomics and documented expertise in any of the following fields: plant ecology, ecosystem dynamics, landscape variation, plant communities and/or conservation biology. The successful candidate should have an interest in advancing our understanding of the molecular mechanisms that contribute to ecological specialization in plants. Qualification requirements are in accordance with the North Rhine-Westphalia University Law and include an excellent track ability in research, proven ability to acquire external funding and the motivation to participate in interdisciplinary collaborations within the newly founded TRR341 "Plant Ecological Genetics" as well as within the Cluster of Excellence on Plant Sciences (CEPLAS),

the Max-Planck-Institute for Plant Breeding Research and the Faculty of Mathematics and Natural Sciences of the University of Cologne.

OUR OFFER

The professorship is a German Professorship at W2 level. The professor will head their own chair, which will include one Postdoc, one technician, 25% secretary and a yearly budget of approximately 20kEuro. The chair is located at the Cologne Biocenter, which provides excellent conditions for state-of-the-art plant research. The position can be filled as soon as possible. Formal requirements are detailed in Section 36 of the Higher Education Act of North Rhine-Westphalia (Hochschulgesetz - HG NRW). As a rule, the teaching load comprises nine semester hours per week (i.e., two hours per week is one 90-minute course per semester).

OUR UNIVERSITY

The University of Cologne is one of the oldest and largest universities in Germany. With its six Faculties covering a broad spectrum of disciplines and its internationally outstanding research profile areas, it enjoys an excellent reputation for its academic achievements and high standards of undergraduate and graduate education. The Faculty of Mathematics and Natural Sciences comprises six departments with about 180 professorships and 9,000 students and is one of the largest faculties in the country. The University of Cologne provides a stimulating academic environment with a wide range of career development opportunities as well as support services for dual career couples and family-friendly working conditions. The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz - LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

APPLICATION

Please submit your application via the University of Cologne's Academic Job Portal (<https://professorships.uni-koeln.de>) by September 30, 2022. Your application should be addressed to the Dean of the Faculty of Mathematics and Natural Sciences. Applications should include a letter of motivation, research and teaching statements and the usual documents (CV, publication list, information on external funding, teaching experience, academic achievements and honors). If you have any questions, feel free to contact a colleague of the Institute of Plant Sciences of the University of Cologne.

Juliette de Meaux <jdemeaux@uni-koeln.de>

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UConnecticut FieldResTech EvolutionFishParasites

Field Research Technician: University of Connecticut & Bamfield Marine Science Center A Field Research Technician position is available in Dr. Daniel Bolnick's research group in the Department of Ecology and Evolution <<http://eeb.uconn.edu/>> at the University of Connecticut, as part of a collaborative project with Dr. Amanda Hund (Carleton College), Dr. Jessica Hite (University of Wisconsin, Madison) and Dr. Sebastian Schreiber (University of California Davis). The technician will be based year-round at Bamfield Marine Science Center on the west coast of Vancouver Island, to conduct a four-season survey of fish parasite abundance across numerous lakes.

Tasks: The technician will be funded by a U.S. National Science Foundation (NSF) Ecology and Evolution of Infectious Disease (EEID) grant to study the metapopulation epidemiology of the complex life-cycle tapeworm, *Schistocephalus solidus*, as it infects copepods, stickleback fish, and piscivorous birds. The technician will be an employee of the University of Connecticut but will reside at Bamfield Marine Science Center (BMSC) on Vancouver Island, British Columbia. They will sample a set of lakes monthly throughout the year to determine the abundance of *S. solidus* parasites in the water (eDNA), copepods, stickleback, and birds, across a set of lakes. In the second year of the project the technician will cross stickleback from numerous lakes and raise them in the aquarium lab at BMSC for a series of foraging, infection, and immune assays.

Minimum Qualifications: Applicants must have a BS, BA, or MA degree in biology or a closely related field. Prior research experience is essential, including field work experience and the demonstrated ability to work independently. Previous research experience and work records should demonstrate a commitment to research, good work ethic, lab skills, and organizational ability.

Preferred qualification: Experience with animal care is valuable, especially if the candidate wishes to continue into the second year of the position. Laboratory skills related to genetics, immunology, and/or parasitology are helpful.

Duration: This appointment will initially be for one year, with the intent to extend for a second year conditional on performance. Additional years will be available contingent on external funding. The start date is negotiable but must be able to begin no later than early May 2023.

Salary is 34,000 to 38,000 per year depending on qualifications, plus benefits as UConn staff. The technician will have use of a University of Connecticut field vehicle for work on Vancouver Island.

Applications should electronically submit a single pdf file containing the following, in order: 1) Coverletter, including a summary of research experience and career goals 2) CV 3) List of three references, with contact information (email, telephone, and mailing address). We will request letters directly from these references, after identifying top candidates.

The application pdf file should be emailed to Dr. Daniel Bolnick (daniel.bolnick@uconn.edu). Include the subject line "Field Technician Application: <YOUR NAME>". Applications must be received by November 1 for full consideration, though late applications may be considered.

For questions about this position, please email Dr. Bolnick (daniel.bolnick@uconn.edu). For information about the Bolnick Lab visit the lab website (<https://bolnicklab.wordpress.com>), lab photostream <<https://www.flickr.com/photos/98765823@N08/-albums>>, and Dr. Bolnick's Google Scholar page <https://scholar.google.com/citations?hl=en&user=-cfwxm0AAAAAJ&view_op=list_works&sortby=pubdate>.

The University of Connecticut is an Equal Opportunity Employer. Applicants with questions about disability services can privately discuss their application with the University of Connecticut Disability Services Office. The Bolnick Lab is simultaneously searching for a postdoctoral researcher.

"Bolnick, Daniel" <daniel.bolnick@uconn.edu>

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UConnecticut PopulationGenomics

The Department of Ecology and Evolutionary Biology (EEB) at the University of Connecticut (UConn) invites applications for a tenure-track faculty position in Population Genetics or Population Genomics at the Assistant Professor level. The Department seeks a research scientist who conducts innovative research on population genetics or population genomics to answer important questions about evolutionary processes, ecology, systematics, epidemiology, or conservation biology. The research could include the development of new analytical theory in population genetics, creation of cutting-edge statistical tools or software for population genetic inferences, or application of advanced theory or statistics to empirical data to draw inferences about evolution or related fields. Candidates may focus on the population genetics of single loci, genomes, or evolutionary quantitative genetics. Empirical research, if any, may be focused on any taxonomic group(s).

This position builds on Departmental strengths in ecology, evolution, systematics, organismal biology, and conservation biology. The Department offers a highly collaborative environment at a leading public research university that is committed to fostering a diverse and inclusive academic community. More information about the Department can be found at <https://www.eeb.uconn.edu>. EEB's Biodiversity Research Collections (<https://biodiversity.uconn.edu>) comprise outstanding collections of vertebrates, invertebrates, and plants. Departmental foci are complemented by faculty in intersecting departments, Molecular and Cell Biology; Physiology and Neurobiology; Statistics; Natural Resources and the Environment; Marine Sciences; Anthropology; Plant Sciences; and Animal Sciences, as well as the Institute for Systems Genomics. Faculty in several other departments add additional strength in bioinformatics, and faculty at the UConn Health Center and the Jackson Laboratory for Genomic Medicine contribute substantial strength in human population genomics. In addition, the University is embarking on an endeavor to strengthen our ability to analyze big data that will create many additional opportunities for the successful candidate.

The successful candidate will be expected to: (1) supervise an independent research program that will attract extramural funding, provide research training for gradu-

ate and undergraduate students, and offer professional service to the Department and University; (2) teach an undergraduate course, and a graduate-level population genetics class, using effective evidence-based teaching methods; (3) mentor students in research, outreach, and professional development; and (4) broaden participation of members of underrepresented groups, engage diverse groups through research, teaching, and public engagement, and exhibit skill in using pedagogical techniques designed to meet the needs of individuals with diverse backgrounds, learning styles, and intellectual interests.

Founded in 1881, UConn is a Land Grant and Sea Grant institution and member of the Space Grant Consortium. It is the state's flagship institution of higher education and includes a main campus in Storrs, CT, four regional campuses throughout the state, and 13 Schools and Colleges, including a Law School in Hartford, and Medical and Dental Schools at the UConn Health campus in Farmington. The University has approximately 10,000 faculty and staff and 32,000 students, including nearly 24,000 undergraduates and over 8,000 graduate and professional students. UConn is a Carnegie Foundation R1 (highest research activity) institution and is among the top 25 public universities in the nation. Through research, teaching, service, and outreach, UConn embraces diversity and cultivates leadership, integrity, and engaged citizenship in its students, faculty, staff, and alumni. UConn promotes the health and well-being of citizens by enhancing the social, economic, cultural, and natural environments of the state and beyond. The University serves as a beacon of academic and research excellence as well as a center for innovation and social research to communities. UConn is a leader in many scholarly, research, and innovation areas. Today, the path forward includes exciting opportunities and notable challenges. Record numbers of undergraduate applications and support for student success have enabled the University to become extraordinarily selective.

MINIMUM QUALIFICATIONS

* A Ph.D. or equivalent in ecology and evolutionary biology, biology, biostatistics, or a related field by time of appointment. Equivalent foreign degrees are acceptable.

* At least two publications in peer-reviewed journals, presenting novel research in population genetics. * Ability to teach population genetics and related topics in evolutionary genetics or genomics, using innovative and effective pedagogical methods.

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UConnecticut ResTech CompBioCore

Research Technician Computational Biology Core, Institute for Systems Genomics

The UConn Institute for Systems Genomics is seeking a research assistant to support the work of its Computational Biology Core. The Core supports the research mission of the University of Connecticut through a mix of paid research projects, project support and consultation, training workshops and the management of a high performance computing (HPC) facility along with providing support for the HPC user base.

DUTIES AND RESPONSIBILITIES

Support of the HPC facility Support users through installing open-source scientific software and troubleshooting user code Manage and update shared databases Support online workshops Triage requests received via e-mail, slack, and our help desk

MINIMUM QUALIFICATIONS

B.A./B.S. or higher in computational or biological sciences Experience with analyzing high-throughput sequence data Proficiency with Linux Comfort interacting with an HPC system Strong presentation and communication skills Positive attitude and ability to work as part of a team (multi-tasking extraordinaire)

PREFERRED QUALIFICATIONS

Comfort with R and/or Python programming Proficiency with open-source software installation

APPOINTMENT TERMS

This temporary special payroll position requires 40 hours per week, with an hourly rate of \$28.00. This short-term role (6 months - 1 year) may transition to a permanent role for the right candidate (staff scientist).

The position can be on-site, remote or hybrid (must be able to attend meetings and support all users during Eastern Standard Time working hours). This position does not offer sponsorship benefits.

TO APPLY

To apply, please email a resume and cover letter detailing your qualifications to jill.wegrzyn@uconn.edu, with the subject line "Research Technician Application." Screening will begin immediately.

Employment of the successful candidate is contingent upon the successful completion of a pre-employment criminal background check.

All employees are subject to adherence to the State Code of Ethics which may be found at <http://www.ct.gov/ethics/site/default.asp>. The University of Connecticut is committed to building and supporting a multicultural and diverse community of students, faculty and staff. The diversity of students, faculty and staff continues to increase, as does the number of honors students, valedictorians and salutatorians who consistently make UConn their top choice. More than 100 research centers and institutes serve the University's teaching, research, diversity and outreach missions, leading to UConn's ranking as one of the nation's top research universities. UConn's faculty and staff are the critical link to fostering and expanding our vibrant, multicultural and diverse University community. As an Affirmative Action/Equal Employment Opportunity employer, UConn encourages applications from women, veterans, people with disabilities and members of traditionally underrepresented populations.

"Reid, Noah" <noah.reid@uconn.edu>

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UConnecticut ResTech MicrobialEvolution

Research technician in microbial evolutionary ecology and host-microbiome interactions

Urban Lab: Theory suggests that rapid adaptation can alter the assembly of communities by allowing the first colonists to adapt to novel conditions and limit the establishment and success of future arrivals. This effect should be greatest in isolated habitats, where the initial colonist has substantial time to adapt to local conditions. We will work with Haloarchaea, which are a taxa of extremophile microbes found in hot, salty conditions around the world. Moreover, these organisms can exchange genetic material and thus potentially alter adaptive dynamics. The technician will participate in all aspects of the project, including experimental evolution, competition experiments, genomic studies, and analyses, as well as explore further directions based on independent skillsets and ideas. Additional responsibilities include written and oral communication of research results and mentoring undergraduate students. in-

microbial evolutionary ecology and host-microbiome interactions Bolnick Lab: Microfluidic artificial guts provide a promising tool for studying the interactions between vertebrate intestinal epithelial and immune cells, and their gut microbiota. These interactions can be experimentally manipulated with greater control than in live vertebrates, and directly observed in real time. Working with threespine stickleback (a small fish that is a major model organism in evolutionary ecology), we have developed protocols for gut-on-chip experiments, and now are embarking on experiments using this approach to test for co-adaptation between gut microbiota and stickleback across disparate host populations with distinct microbial communities.

Minimum qualifications: The successful applicants will have completed a degree in biology, including evolutionary biology, microbial biology, and ecology, genetics, or a related field prior to the start date. We are looking for someone with strong laboratory skills working with microbes. Previous research experience and work records should demonstrate a commitment to research, good work ethic, lab skills, and organizational ability.

Preferred qualifications: experience working with Archaeans and/or vertebrate gut microbiota, cell cultures, and molecular genetics lab work. Strong organizational and communication skills, as well as a demonstrated ability to work independently are also valued.

The position is open immediately with a preferred start date of October 1st. The position is for 1 year with potential options to extend. Salary is \$40 - \$45k commensurate with experience and position. Benefits are included.

To apply, send an email to both Mark Urban (mark.urban@uconn.edu) and Dan Bolnick (daniel.bolnick@uconn.edu) including 1) a cover letter that explains your fit to the research position, what key skills you can contribute to the projects listed above, and your potential start date; 2) a complete CV with any publications and grants; and 3) the names of two references. Review of applications will begin September 12 and continue until the position is filled.

For additional information, contact Mark Urban (mark.urban@uconn.edu) or Dan Bolnick (daniel.bolnick@uconn.edu). For information about the labs visit the websites (<https://bolnicklab.wordpress.com> <http://hydrodictyon.eeb.uconn.edu/people/urban/>), lab photostream <<https://www.flickr.com/photos/98765823@N08/albums>>, and Dr. Bolnick's <https://scholar.google.com/citations?hl=en&user=cfwxm0AAAAAJ&view_op=list_works&sortby=pubdate> and Dr. Urban's

< <https://scholar.google.com/citations?user=-8aJp2VQAAAAAJ&hl=en> > Google Scholar pages.

The University of Connecticut is an Equal Opportunity Employer. Applicants with questions about disability services can privately discuss their application with the University of Connecticut Disability Services Office. The Bolnick Lab is simultaneously searching for a postdoctoral researcher.

Dr. Daniel I. Bolnick Editor-In-Chief, The American Naturalist Professor, Ecology and Evolutionary Biology & Institute for Systems Genomics

daniel.bolnick@uconn.edu

MAIL TO: Department of Ecology and Evolutionary Biology 75 N. Eagleville Road, Unit 3043 University of Connecticut Storrs, CT 06269-3043, USA

Office Phone: 860-486-3156 Lab Phone: 860-486-3937 Cell Phone: 512-809-6217

Office:PBB 305C Lab: PBB 317&319; ATW 232, 234, 236 Lab website: <https://bolnicklab.wordpress.com> "Bolnick, Daniel" <daniel.bolnick@uconn.edu>

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UDenver LabTech MammalianEvolGenomics

The Velotta Lab at the University of Denver (velotta-lab.org) is accepting applications for a full-time benefited Laboratory Research Technician in mammalian evolutionary physiology and genomics. This position will support projects investigating the physiological and genomic mechanisms of adaptation to high-altitude in deer mice (*Peromyscus* spp.). The position requires a BS in biology, a demonstrated ability to conduct independent research, and a commitment to fostering an inclusive work environment. Candidates with experience in basic molecular biology, whole-animal physiology techniques (e.g., respirometry) and rearing laboratory rodents are preferred qualifications. The ability and desire to work both independently and collaboratively with other members of the lab is critical to the success of this position. The position is grant-funded for one year, with the pos-

sibility of renewal, and has an immediate start date. A cover letter, CV and 3 references are required.

Required Qualifications

BS in Biology or related field prior to the start date
One (1) year laboratory experience
Demonstrated ability to conduct independent research
Commitment to fostering an inclusive work environment

Preferred Qualifications

Experience in animal care
Experience in generating genetic or genomic data
Experience in conducting whole-animal experiments and/or physiological assay

Review of applications will begin on October 4, 2022. The position will remain open until filled.

A detailed description of the position, and link to the application, is available on our website: <https://jobs.du.edu/en-us/job/495567/lab-technician-velotta-lab> Questions about the position can be sent to Jon Velotta at jonathan.velotta@du.edu

Jonathan Velotta

Assistant Professor Department of Biological Sciences
University of Denver 2101 E Wesley Ave Denver, CO 80210

Office: SGM 280

Twitter: @JonVelotta

jvelotta.com

he/him

Jon Velotta <Jonathan.Velotta@du.edu>

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UFlorida CuratorMammalogy

The Florida Museum of Natural History at the University of Florida (UF) seeks qualified applicants for a 12-month tenure-track Assistant Curator of Mammalogy. This position will be filled at the Assistant faculty level in the Florida Museum's Department of Natural History. The Division of Mammalogy contains 35,000 specimens representing over 1,200 species from 25 of the 27 orders of mammals, with strengths in small mammals, primarily rodents and bats of the southeastern U.S., Caribbean, and South America. Through long-term federal, state, and regional collaborations, the collection established a

significant marine mammal collection with 300 manatee and 800 cetacean specimens. The collection also houses one of the largest collections of Pakistani mammals in the Western Hemisphere as well as the largest holdings anywhere of the iconic Florida panther due to partnerships with state and federal agencies. More information on these resources is available at the webpage of the Division of Mammalogy. The Florida Museum supports a rich research community studying vertebrates in neontological, paleontological, and anthropological contexts. In addition to collections at the Florida Museum, research is facilitated by UF resources for genetics and genomics, 3D-imaging, and research field stations.

The Florida Museum of Natural History is the official state museum of Florida and is located on the campus of the University of Florida, the State of Florida's flagship university and ranked No. 5 among the nation's top public research universities by U.S. News and World Report. The Florida Museum's mission includes stewardship of 40 million specimens and artifacts, award-winning exhibitions, diverse public programs, and emerging virtual and digital engagement. The research and collections programs of the Department of Natural History are world class and attract about \$10 million annually in government and philanthropic support. The Florida Museum is a national and international leader in biodiversity informatics, enhanced by its formative role in iDigBio, the national hub for digitization of natural history specimens.

The Florida Museum, a college-level unit within UF, is a vibrant community of about 300 employees, including 29 full-time faculty, UF undergraduate and graduate students, postdoctoral research associates, and museum collections, education, and administrative support staff. The museum has dedicated labs for digital imaging, molecular genetics and genomics, and preparing skeletal specimens, as well as a new building dedicated to housing fluid-preserved collections. The Florida Museum enjoys cross-campus collaborations with many of the 16 UF colleges, including those of potential relevance to this new faculty position: Agricultural and Life Sciences (Institute of Food and Agricultural Sciences), Education, Engineering, Libraries, Liberal Arts and Sciences, and Veterinary Medicine. Other campus resources likely of interest to the holder of this position include the UF Genetics Institute, UF Biodiversity Institute, and the Ordway-Swisher Biological Station that is part of National Ecological Observatory Network (NEON).

Qualifications We seek to hire a creative scholar whose research and teaching are specimen-based and focus on mammals. We invite candidates who address questions in the broad field of Ecology and Evolution and who would contribute to and make use of the Florida

Museum's mammalogy collection. We anticipate that the successful candidate's research would bolster current strengths (e.g., evolutionary biology, systematics, biogeography) and grow others (e.g., global change biology, disease ecology, microbiomes, species interactions, marine mammals, conservation biology). An ideal candidate will contribute to the museum's goals of understanding, preserving, and interpreting biological diversity, and conduct research with opportunities for integrative collaborations with other faculty and divisions within Florida Museum. We especially encourage applications from candidates who contribute to the diversity, inclusivity, and excellence of the academic community, who have experience working with underserved and/or underrepresented students, scientists, and communities, and who are committed to building a more diverse, inclusive, and safe environment within our academic community.

Successful candidates should have a Ph.D. in Biology or a related field, conduct specimen-based research on mammals, and have evidence of excellence in research. Starting salary range for this position is \$90,000 to \$105,000 and negotiable based on experience.

Assistant Curator is equivalent to Assistant Professor and is a faculty-rank title at the University of Florida. This is a 12-month and tenure-accruing position.

Application Instructions Interested applicants should view the Application Instructions on the museum's website for details on how to submit an application:

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Uillinois QuantitativePlantBiology

Quantitative Plant Biology

Assistant Professor

University of Illinois at Urbana-Champaign

The School of Integrative Biology and the Department of Plant Biology at the University of Illinois, Urbana-Champaign seek an individual working in the broadly defined field of quantitative plant biology. We are interested in candidates who will devise or apply innovative quantitative approaches to advance the empirical or theoretical understanding of fundamental questions in

ecological, evolutionary, organismal, physiological, biochemical, molecular, or genomic plant biology. We are particularly interested in researchers who can address questions that integrate across multiple spatial or temporal hierarchical scales. Methods of interest include, but are not limited to, machine learning/artificial intelligence; advanced statistics; mechanistic modeling; ?big data? analytics. Areas of interest include, but are not limited to, biodiversity, ecosystem function, food security, climate change biology, biosystem design, and bioenergy.

The University of Illinois provides a highly collaborative and supportive academic environment for cross-disciplinary plant systems research given its strengths in photosynthesis, bioengineering, crop sciences, global change, molecular and cellular biology, genomics, ecology, chemistry, and computation. Relevant interacting units include the: Institute for Genomic Biology; Institute for Sustainability, Energy and Environment; Center for Advanced Biofuel and Bioproduct Innovation; Center for Digital Agriculture; National Center for Supercomputer Applications; Bill and Melinda Gates Foundation funded Realizing Improved Photosynthetic Efficiency project; and many departments across the colleges of Liberal Arts and Sciences, Engineering, and Agricultural, Consumer, and Environmental Sciences.

The Illinois College of Liberal Arts and Sciences is a world leader in research, teaching, and public engagement. Faculty in the College create knowledge, address critical societal needs through the transfer and application of knowledge, and prepare students for lives of impact in the state, nation, and globally. To meet these objectives, the College embraces and values diversity and difference through hiring faculty candidates who can contribute through their research, teaching, and/or service to the diversity and excellence of the Illinois community. <https://oae.illinois.edu/> . The successful candidate will be expected to develop an externally funded research program, teach at undergraduate and graduate levels, and collaborate with faculty to develop research and education initiatives in quantitative biology. The department and school are committed to providing an inclusive environment. Therefore, we particularly seek a candidate who can add intellectual diversity and work successfully with diverse students and colleagues. A Ph.D. or equivalent in biology, plant science, or another relevant field is required and postdoctoral experience is highly desirable at the entry Assistant Professor level.

The appointment is for a full-time, nine-month, tenure-track Assistant Professor. Target start date is August 16, 2023. Salary is commensurate with experience.

To find out more about the resources available at the

university and Urbana-Champaign community please visit these sites:

Dual Career Program

Benefits

Living in Champaign-Urbana

To ensure full consideration, please create your candidate profile through <http://jobs.illinois.edu/> and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and a statement of experience and plans for work that improves Diversity, Equity, and Inclusion (DEI) by October 3, 2022.

Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. For further information regarding the position or application procedures, you may contact the Search Chair at sib@life.illinois.edu.

The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.

rcfuller@illinois.edu

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UKansas EvolutionaryGenomics

Assistant Professor in Evolutionary Genomics Department of Ecology and Evolution Biology, University of Kansas

We invite applications for a tenure-track assistant professor in Evolutionary Genomics. The department is interested in candidates applying cutting edge genomic approaches to address fundamental questions in evolutionary biology. KU's EEB department, with its close ties to the Biodiversity Institute, Kansas Biological Survey & Center for Ecological Research, and Center for Genomics, provides many opportunities for cross-disciplinary, integrative research. The successful candidate will be expected to develop an externally funded, internationally recognized research program in Evolutionary Genomics and have a demonstrated commitment to excellence in teaching, mentoring and service.

The Department of Ecology and Evolutionary Biology is committed to establishing a work environment of eq-

uity and inclusion where diverse cultures, identities and ethnicities are honored and valued <https://eeb.ku.edu/diversity>. We especially welcome applicants from groups historically marginalized in the fields of Ecology and Evolutionary Biology. More broadly, The University of Kansas is dedicated to creating a diverse, equitable, and inclusive working and learning environment. Individuals who are committed to furthering these goals are encouraged to apply.

Founded in 1865, KU is the state's flagship university and as a premier research institution is one of only 34 public members of the prestigious Association of American Universities (AAU). The university enrolls more than 28,000 students with many top ranked graduate programs. The campus is situated in the historic, diverse, and culturally vibrant city of Lawrence, Kansas, 40 minutes from the Kansas City metropolitan area.

Applicants must have a Doctoral degree in relevant field by the time of appointment. Applicants should demonstrate a commitment to excellence in research and teaching as evidenced by accomplishments outlined in CV and written statements. EEB is committed to promoting a diverse, safe, and inclusive work environment and applicants should convey their commitment to these goals in their application statement. For a complete announcement and to apply online, go to <https://employment.ku.edu/academic/23444BR>. A complete online application includes the following materials: cover letter, curriculum vitae, a research statement (up to five pages), a teaching statement (up to two pages), a statement of commitment to diversity, and the names, e-mail addresses, and contact information for at least three references.

In addition to the materials above, learning about each applicant's contribution and engagement in areas of diversity is an important part of KU's mission. As a result, applicants will be presented the following question at the time of application: Describe your experiences working with people from diverse backgrounds and explain how those experiences reflect your commitments to diversity, equity, and inclusion (DEI). Applicants are also encouraged to include or expand upon how they have contributed to building a culture of inclusivity through DEI initiatives within the required application materials listed above.

First Review of applications will begin November 1, 2022 and will continue until the position is filled. Position inquiries can be directed to search committee chair Dr. John Kelly (jkk@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, sex-

ual 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: Associate Vice Chancellor for 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).

"Kelly, John K" <jkk@ku.edu>

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UMaine LabManager

We are looking for a lab manager. The position provides laboratory, field, and administrative support to the Agroecology and EcoEvoMatics Labs at the University of Maine.

The position provides laboratory, field, and administrative support to the Agroecology and EcoEvoMatics Labs at the University of Maine.

Please see the full ad at this link: https://www.ecoevomatics.org/2022/08/31/lab_manager.html
Andrew J. Rominger (he/him) Assistant Professor of Ecological Bioinformatics

School of Biology & Ecology University of Maine
ecoevomatics.org

The University of Maine recognizes that it is located on Marsh Island in the homeland of the Penobscot Nation, where issues of water and territorial rights, and encroachment upon sacred sites, are ongoing. Penobscot homeland is connected to the other Wabanaki Tribal Nations the Passamaquoddy, Maliseet, and Micmac through kinship, alliances and diplomacy. The university also recognizes that the Penobscot Nation and the other Wabanaki Tribal Nations are distinct, sovereign, legal and political entities with their own powers of self-governance and self-determination. (UMaine Land

Acknowledgement)

Andy Rominger <andrew.rominger@maine.edu>

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UMaryland Theoretical Evolution

The Department of Biology at the University of Maryland, College Park, invites applications from individuals working in the field of theoretical or computational ecology for a tenured or tenure-track position at any rank. Research topics of particular interest include but are not limited to: 1) intersection of ecological and evolutionary dynamics, 2) environmental drivers of emerging infectious diseases, and 3) models of encounter-based processes and species interactions in response to environmental alterations. Preference will be given to applicants whose research programs complement an institutional emphasis in addressing the challenges of global change. We seek scholars who work broadly in theoretical or computational ecology, and are eager to interact with a vibrant and interdisciplinary group of colleagues. Candidates should have a strong publication record in theoretical or computational ecology and show promise for, or an established record of, external funding. Candidates should have a demonstrated commitment to teaching and mentorship at both the undergraduate and graduate levels and a commitment to conducting open and reproducible research. Consistent with Departmental and University values, candidates should be committed to fostering diversity and inclusion through their approaches to research, teaching, and mentoring. A PhD is required at the time of appointment. Application materials should be submitted through the UMD applicant portal, <https://ejobs.umd.edu>. Because the Department of Biology is committed to increasing the diversity of the campus community and promoting inclusion across campus, materials should address how the candidate will contribute to fostering a diverse and inclusive community.

For best consideration, complete applications should be received by November 7, 2022. Please address questions to the Department Chair, Professor Joshua Singer (jhsinger@umd.edu).

Karen Carleton (she / her)

Professor

Department of Biology

1210 Biology Psychology Bldg

4094 Campus Dr

University of Maryland

College Park MD 20742

301-405-6929

Karen Carleton <kcarleto@umd.edu>

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UMiami Evolutionary Ornithology

Robert E. Maytag Chair of Ornithology (Associate Professor - Professor)

The University of Miami's Department of Biology invites exceptional ornithologists to apply for the Robert E. Maytag Chair of Ornithology. In addition to being outstanding, internationally recognized scientists passionate about birds, applicants must be excellent teachers with strong commitments to undergraduate and graduate education. This prestigious chair includes an annual budget to support research. Applications will be considered at the Associate Professor and Professor ranks with an expected start date of August 15, 2023.

We welcome applications from candidates who would enhance or complement our existing departmental programs in Biodiversity & Global Change, Tropical Ecology & Evolution, Development & Disease, Neuroscience & Behavior, and Microbiome Biology & Species Interactions. To be eligible for this tenure-track appointment, candidates must hold a Ph.D. in Biology or a related field and have a strong record of research accomplishments and research funding. The successful candidate will be expected to maintain a vigorous, externally funded research program, to teach at both the undergraduate and graduate level, including regularly teaching an undergraduate course in ornithology and be committed to professional engagement that promotes diversity, equity, and inclusion.

Interested applicants should submit a cover letter describing the interactions they foresee with existing research programs in the Department of Biology or other units at the University of Miami, a curriculum vitae and, a 1-2 page statement describing their commitment to increasing diversity, equity, and inclusion through research, teaching, and service. For refer-

ence, information about the University of Miami's pursuit of Racial Justice can be found here: <https://president.miami.edu/inclusion/index.html> Application documents should be merged and submitted as a single pdf file online via the UM Careers website: <https://umiami.wd1.myworkdayjobs.com/UMFaculty> . Following initial review of applications, long list candidates will be contacted by email and requested to solicit three letters of recommendation, including one from a former mentee.

To receive full attention, application materials must be received by October 15th, 2022. More information about the Department and University can be found at <https://www.biology.as.miami.edu>. Inquiries should be directed to the Search Chair at: maytag.chair.search@miami.edu.

Kevin G. McCracken Department of Biology, College of Arts & Sciences Marine Biology & Ecology, Rosenstiel School of Marine & Atmospheric Sciences Human Genetics & Genomics, Hussman Institute for Human Genomics University of Miami Coral Gables, FL 33146 U.S.A.

Office: 211 South Grosvenor (RSMAS) Lab: 188 Cox (Biology)

<http://www.duckdna.org> email: kevin.g.mccracken@gmail.com

< <http://goog-1630269730> > <http://gen-pob.org> Kevin McCracken <kevin.g.mccracken@gmail.com>

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UMinnesota EvolutionaryBiology

The department of Fisheries, Wildlife, Conservation Biology at the University of Minnesota is officially starting the search for a Presidential Postdoctoral Fellow (PPF).

Specifically, we are interested in scholars with the potential to bring to their research and teaching the perspective that comes from their educational background or their understanding of the experiences of groups historically underrepresented in higher education. This person may have expertise in any of the areas that we work on in FWCB and they may mentor with one of several faculty members in the department. Upon successful completion of the postdoc and approval of the faculty, this person will be offered a targetted position as an Assistant Professor in the department.

For all of the details, please visit <https://fwcb.cfans.umn.edu/presidents-postdoc-information> SR

Sushma Reddy <sreddy@umn.edu>

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UMississippi BacterialInteractions

Assistant Professor Bacterial Interactions

Link: <https://careers.olemiss.edu/job/University-Assistant-Professor-of-Biology-%28Bacterial-Interactions%29-MS-38677/931702900/>

The Department of Biology at the University of Mississippi invites applications for a tenure-track Microbiologist at the Assistant Professor level. We seek candidates studying mechanisms of bacterial interaction, whether they be bacteria-bacteria, bacteria-eukaryotic microbe, or bacteria-host. Examples of study areas include, but are not limited to, multispecies biofilms, quorum sensing, metabolic signaling, host-pathogen interactions, mutualisms, and multi-organism study systems. The successful candidate will be expected to establish an active, externally funded research laboratory, and teach an upper division General Microbiology course and another course in their area of expertise. This position will complement and extend existing departmental strengths in microbiology, symbiosis and species interactions, biodiversity and conservation biology, cell and molecular biology, and neuroscience and behavior (<http://biology.olemiss.edu>).

The Department of Biology is a vibrant, broad-based department that consists of 19 tenure-track and 14 instructional faculty members, and educates over 800 undergraduate biology majors and 45 graduate students (Ph.D. and M.S.). Construction of a new \$175M STEM education facility on campus is underway that will foster interdisciplinary opportunities to fulfill our commitment to inclusive excellence in biology education. The University of Mississippi is a Carnegie-Designated R1 Highest Research University located in Oxford, Mississippi, a college town known for its outstanding educational and cultural opportunities. The University of Mississippi has been repeatedly recognized by the Chronicle of Higher Education as a "Great College to Work For." The Department of Biology recognizes the importance of building a diverse faculty and welcomes applicants from groups underrepresented in science.

Position Details Appointment: 9 Month Assignment
Type: Tenure Track

Minimum Qualifications Applicants must have an Ph.D. degree in Biology or a related field, with a background in microbiology, and post-doctoral experience.

Application Procedures Applications should include: (1) cover letter outlining interest and suitability for the position, (2) curriculum vitae, (3) a brief (four pages or less) research statement, which includes experience and research interests as well as suitability for funding, (4) a brief (two pages or less) teaching statement, which includes experience and teaching interests, (5) names and contact information for at least three references. Review of applications will begin October 3 and continue until the position is filled. As both the University of Mississippi and the Department of Biology are committed to building an inclusive and diverse university community (Pathways to Equity plan: <https://chancellor.olemiss.edu/pathways-to-equity>), applicants should specify within their application (6) how their research, teaching, scholarship, and service will contribute to a diverse and inclusive community. During the online application process, applicants will be prompted to provide the names and email addresses of three professional references that will provide letters of recommendation. The University of Mississippi has a Carnegie classification of R1 and is rated a “Great Colleges to Work For” by the Chronicle of Higher Education. The University of Mississippi is an EOE / AA / Minority / Female / Vet / Disability / Sexual Orientation / Gender Identity / Title VI / Title VII / Title IX / 504 / ADA / ADEA employer.

About the University of MS & Oxford, MS Founded in 1848, the University of Mississippi (UM) is Mississippi’s flagship university. Included in the elite group of R-1: Doctoral Universities - Highest Research Activity by the Carnegie Classification, it has a long history of producing leaders in public service, academics and business. The University of Mississippi, consistently named by The Chronicle of Higher Education as a “Great College to Work For,” is located in Oxford, MS, which is ranked one of the “Top 10 Best College Towns.” With more than 24,000 students, UM is the state’s largest university and is ranked among the nation’s fastest-growing institutions. The University of Mississippi, which has aggressively implemented many health and wellness initiatives for its more than 2,900 employees, has consistently been named one of Mississippi’s Healthiest Workplaces.

Creativity abounds in Oxford as musicians, artists and writers alike find inspiration in Oxford’s rich history, small town charm and creative

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UMontreal AnimalGenomics

Job description

The Université de Montréal’s Department of Biological Sciences invites applications for a full-time, tenure-track position at the rank of Assistant Professor in animal genomics. The Animal Biology Group at the Université de Montréal conducts diverse research in genetics and epigenetics, comparative physiology, cell signaling, mitochondrial physiology, behaviour, developmental biology and plasticity of the nervous system.

The Department of Biological Sciences contributes to society in important ways. It trains qualified scientists and responsible citizens, advances knowledge through its cutting-edge research, and mentors student researchers in a diverse, multidisciplinary environment to understand all facets of animal, plant and microbial life, from molecule to ecosystems. In this way, it helps facilitate a more sustainable environment for future generations.

The successful candidate will be called upon to develop an externally funded research program involving collaborations at UdeM, in Canada, and around the world. They will be expected to teach at undergraduate and graduate levels, supervise graduate students, pursue research, publication and outreach activities, and contribute to the activities of the department and institution.

To be successful in this role, you must:

Hold a PhD in Biology or a related discipline; Have an excellent publication record in the field of genomics; Demonstrate potential to develop collaborations; Demonstrate an ability to provide high-quality teaching and instruction;

Have either an adequate knowledge of French (written and spoken) or a strong commitment to reach the required proficiency level, in accordance to Université de Montréal’s Language Policy. An institutional learning support program is offered to all professors wishing to learn French or improve their communication skills.

How to submit your application

The application file should be sent to the Department Chair and must contain the following documents:

A cover letter, which includes one of the following statements: “I am a citizen/permanent resident of Canada”; or, “I am not a citizen/permanent resident of Canada.”; A curriculum vitae; A copy of the three most important publications from the last five years; A statement of teaching & mentoring philosophy, including past teaching experience and proposed teaching & mentoring (up to 1 page); A statement of research, including the proposed research program (up to 2 pages); Letters of recommendation will be required upon request.

Application file must be sent by email no later than December 2nd 2022 to: Daniel Boisclair, Chair Département de sciences biologiques Courriel: daniel.boisclair@umontreal.ca Starting date: On or after June 1st 2023

Sophie Breton Professeure agrégée

Chaire de Recherche du Canada en Biologie Évolutive Mitochondriale // Canada Research Chair in Evolutionary Mitochondrial Biology

Département de Sciences Biologiques Université de Montréal Pavillon des Sciences, Campus MIL C.P. 6128, succ. Centre-Ville Montréal, QC, H3C 3J7 Tel. 514-343-6111 #7460

Sophie Breton <s.breton@umontreal.ca>

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UOslo GenomicsCoordinator

Coordinator of Community Sampling for the Biodiversity Genomics Europe (BGE) Project

We seek a full-time (100%) scientific sample coordinator in the EU funded project “Biodiversity Genomics Europe (BGE)”, jointly appointed at CEES and NHMO for a duration of 2 years.

Starting date as soon as possible.

BGE is a joint project of ERGA (European Reference Genome Atlas) and BIOSCAN Europe funded by the EU commission for 3.5 years and involving 33 partner institutions from across Europe. The project has the overarching aim of accelerating the use of genomic science to enhance understanding of biodiversity, monitor biodiversity changes, and guide interventions to address its decline.

The position is part of the ERGA stream of BGE, which

aims to develop this pan-European node of the Earth Biogenome Project (EBP) to create high quality reference genomes for all Eukaryotic species in a distributed, equitable, and capacity-building manner. As an affiliate of EBP, ERGA also serves as an umbrella for national and regional nodes of EBP within Europe (e.g. Earth Biogenome Project Norway [EBP-Nor], Darwin Tree of Life [DTOL] in the UK).

The deadline for the application is September 26th. For information please look here and also apply via this link: <https://www.jobbnorge.no/en/available-jobs/-job/231207/coordinator-of-community-sampling-for-the-biodiversity-genomics-europe-bge-project> About the University of Oslo Centre for Ecological and Evolutionary Synthesis (CEES) is a research centre and a section at the Department of Biosciences, University of Oslo. CEES combines a broad spectrum of disciplines (population biology, genomics, statistics, mathematical modelling) to foster the concept of ecology as a driving force of evolution via selective processes, with a corresponding influence of evolutionary changes on ecology. CEES has over 140 members (Professors (14), postdocs/researchers (40), PhDs (25), Master’s students (40) and technical and administrative staff) and many guest researchers. The members represent 25 nationalities and constitute a vibrant and creative research environment. CEES coordinates several international networks. The total budget = 140 million NOK (about 45 externally funded research projects). CEES successfully completed its 10 year status of Centre of Excellence (CoE) in 2017. The Natural History Museum at the University of Oslo is Norway’s most comprehensive natural history collection. For almost 200 years, specimens of animals, fungi, plants, rocks, minerals and fossils have been collected, studied and preserved here. The museum is located at $i_{\frac{1}{2}}$ kern and in the beautiful Botanical Garden, which is not only popular for recreation, but is a scientific collection in itself.

Job description We are seeking a coordinator for the collection of high-quality organismal samples for whole-genome sequencing and corresponding metadata from the ERGA community. Tasks will include coordination, guidance and oversight of sample acquisition from ERGA members across Europe under deployment and extension of reproducible standards. The coordinator will work closely with others at collaborating institutions in Europe who are responsible for sample biobanking and metadata collection and deposition for the ERGA branch in BGE. They will also work closely with sequencing centre partners across Europe to facilitate delivery of high-quality samples for sequencing. In addition, this position will lead the task of prioritizing species

for sequencing through taxonomic gap analyses and the development of species prioritization criteria for biodiversity genomics consortia, in collaboration with the ERGA community and guided by principles of Justice, Equity, Diversity, and Inclusion (JEDI). These tasks will involve extensive communication and exchange with ERGA community members and other project partners and involvement in ERGA committees, particularly the Sampling and Sample Processing Committee and the Ethical, Legal, and Social Issues Committee. The coordinator will especially work in close collaboration with the PI (Dr. Rebekah Oomen) and Co-PI (Prof. Torsten Struck) of UiO's BGE team, the PI of EBP-Nor (Prof. Kjetil S. Jakobsen), and other members of the UiO BGE team and EBP-Nor team. These teams consist of experts working on genomics, bioinformatics, and biodiversity sampling, and will work together to harmonize efforts at the national and European levels.

Responsibilities - Co-develop species prioritization guidelines for biodiversity genomics consortia - Conduct gap analysis and species prioritization for community-nominated species according to sampling standards of best practice and JEDI principles - Coordinate the collection and delivery of community-nominated samples to sequencing centres for whole genome sequencing

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UPacific EvolutionaryBiology

The Department of Biological Sciences at the University of the Pacific invites applications for TWO tenure-track positions at the rank of Assistant Professor starting in Fall 2023 (with potential for a Spring 2023 start).

Essential Functions: Teaching; scholarly and artistic endeavors; professional and university service Teaching duties are two courses per semester, plus coordination of a teaching laboratory. Teaching responsibilities for these positions could include various combinations of courses depending on the candidate's background and areas of interest, such as General Biology, Anatomy, Physiology, Histology, Microbiology, Neurobiology, or more specialized upper division courses.

Although areas of research specialization are open, the

Department is particularly interested in candidates with research programs that involve students. Candidates are expected to actively pursue extramural funding.

Link to full ad: <https://pacific.peopleadmin.com/postings/23199> Contact: tthiemann@pacific.edu

Estimated salary ~\$70,000/9 month

Ajna Rivera <arivera@PACIFIC.EDU>

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UPennsylvania EvolutionaryGenetics

The Department of Genetics at the University of Pennsylvania is hiring Assistant Professors of Genetics (either experimental and/or computational). Job descriptions are below.

Assistant Professor of Genetics University of Pennsylvania: Perelman School of Medicine: Perelman School of Medicine - Genetics Location Philadelphia, PA Open Date Aug 30, 2022 Deadline Aug 30, 2024 at 11:59 PM Eastern Time

Description The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for several Assistant Professor positions in the tenure track. Expertise is required in the specific area of human genetics, model systems genetics, and/or mechanisms of gene regulation. Applicants must have an M.D. and/or Ph.D degree. Teaching responsibilities may include participating in graduate and medical school education. Research or scholarship responsibilities may include developing and carrying out an independent research program. The Department of Genetics comprises a basic science faculty with diverse investigative interests and close affiliations with clinical departments at Penn Medicine as well as the neighboring Children's Hospital of Philadelphia and the Wistar Institute. Attractive laboratory space and substantial resources are available. For more information about the Department of Genetics, visit <https://genetics.med.upenn.edu/> To ensure full consideration, applicants are strongly encouraged to apply by November 30, 2022. Please submit a cover letter, curriculum vitae, a 2-3-page research statement, a diversity statement, as well as the names of 3 references We seek candidates who embrace and reflect diversity in the broadest

sense. The University of Pennsylvania is an EOE. Minorities/women/individuals with disabilities/protected veterans are encouraged to apply. Here's where to apply:

<https://apply.interfolio.com/110707> Assistant Professor of Genetics in the Institute for Biomedical Informatics University of Pennsylvania: Perelman School of Medicine: Perelman School of Medicine - Genetics Location Philadelphia, PA Open Date Aug 15, 2022 Deadline Aug 15, 2024 at 11:59 PM Eastern Time

Description The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for several Assistant Professor positions in the tenure track. Expertise is required in the specific area of computational biology and/or biomedical informatics as applied to human genetics and genomics. Applicants must have an M.D. and/or Ph.D degree. Teaching responsibilities may include participating in graduate and medical school education. Research or scholarship responsibilities may include developing and carrying out an independent research program. The Department of Genetics and the Institute for Biomedical Informatics comprise a basic science faculty with diverse investigative interests and close affiliations with clinical departments at Penn Medicine as well as the neighboring Children's Hospital of Philadelphia and the Wistar Institute. A joint appointment at the Department of Computer and Information Science School of Engineering may be offered to suitable candidates. Attractive laboratory space and substantial resources are available. For more information about the Department of Genetics, visit <https://genetics.med.upenn.edu/> and about the Institute for Biomedical Informatics visit <https://ibi.med.upenn.edu/>. To ensure full consideration, applicants are strongly encouraged to apply by November 15, 2022. Please submit a cover letter, curriculum vitae, and a 2-3-page research statement, teaching statement, diversity statement, as well as the names of 3 references. We seek candidates who embrace and reflect diversity in the broadest sense. The University of Pennsylvania is an EOE. Minorities/women/individuals with disabilities/protected veterans are encouraged to apply. Here's where to apply: <https://apply.interfolio.com/110710> Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@penmedicine.upenn.edu <http://www.med.upenn.edu/tishkoff/> Director, Center for Global Genomics & Health Equity <https://globalgenomics.med.upenn.edu/index.html> tishkoff@penmedicine.upenn.edu

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UPrimorska ResAssist Genomics

The University of Primorska is seeking a Research assistant with PhD (post-doc) with experience in genomics and bioinformatics, in the area of whole genome sequencing. This position is full-time (40 hours per week) for 2 years with possibilities for extension. The successful candidate will mostly be involved in the EU-funded project "Biodiversity Genomic Europe" and in a 4 year lasting research project financed by Slovenian research agency on wildlife genomics.

However, the group they'll be part of, the Molecular Ecology group at the Department of Biodiversity, uses molecular tools to investigate many different topics and species, from wildlife monitoring to adaptation, and from conservation biology to wildlife management, opening opportunities for additional collaborations.

Your tasks include contribution to:

the management of research projects, maintaining and promoting open science practices. Specific duties may include:

genomic sampling, building DNA and RNA libraries, developing and applying bioinformatic pipelines, performing population genomic and related analyses, performing other data science and statistical analyses, documenting work performed; maintaining databases, contributing to research papers, resolving a diverse range of problems with creativity, teaching, training, and supervising students, coordinating the work, planning, establishing, and refining protocols, preparing reports, managing grant funds. Depending on the applicant's interest, some teaching could be included. 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, proficiency in UNIX command line and high-performance computing, script writing skills in at least one language (R, Python or Perl), experience building population genomic libraries, developing bioinformatic pipelines, and conducting population genomics analyses is preferred but not required, exceptional organizational skills and strong ability to accomplish tasks independently, willingness to supervise graduation/master theses, and to promote young scientists, excellent spoken and

written English.

We offer:

The advertised position is for an initial period of 2 years. The position will be paid according to the category of the Collective agreement for employees at Slovenian universities. We offer a collaborative, supportive, and interdisciplinary work environment, opportunities to be involved in a wide range of international research projects, opportunities for learning and professional development, and the expectation of co-authorship on scientific manuscripts. At the end of the 2 years period, pending positive evaluation, the contract could be extended into an Assistant Professorship. Application instructions:

Interested applicants are requested to send the application in electronic form to stepchange@famnit.upr.si, and with "Postdoc in bioinformatics" 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: 15 October, 2022

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

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students enroll in these courses each semester, standardizing the quality of teaching across multiple sections is imperative to maintaining consistency in the classes and promoting the students' overall success.

The position is open until filled. More information, including how to apply, can be found at <https://uscjobs.sc.edu/postings/127460>. The above is taken from the official position description. We were originally searching for someone to start in the Fall, and the position is open until filled. By way of clarification, the courses we are looking to have taught are part of the biology majors' core curriculum (one in Ecology & Evolution, one in Genetics). Professional Track faculty members have voting rights at both the University and Department levels. Instructors in our department are highly respected, we have a Department Chair who is a strong advocate for them, and these positions have very low turnover.

Jeffrey L. Dudycha Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 [dudycha \[at\] biol.sc.edu](mailto:dudycha[at]biol.sc.edu) <http://www.tangledbank.org> tw: @JLDudycha

DUDYCHA@biol.sc.edu

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USouthCarolina EvolutionInstructor

The Department of Biological Sciences at the University of South Carolina-Columbia is looking for a Professional Track Faculty member to teach courses in Ecology & Evolution, and Genetics at the sophomore and junior (BIOL 300+) levels starting in January 2023. This is a 9-month non-tenure track appointment, renewable based on Dean's approval, satisfactory performance, departmental needs, and the availability of funding.

The teaching load for this position is 4:4 over the course of 9-months (Fall and Spring semesters). The 4:4 load is equivalent to teaching 12 credit hours worth of courses each semester. These twelve hours can be any combination of lectures as deemed appropriate by the Department of Biological Sciences.

A Professional Faculty member in these areas is needed not only to help manage, develop, and maintain curricula for these integral science courses but also to help with standardizing the curriculum quality. As many

USouthernCalifornia EvolutionaryGenomics

The Molecular and Computational Biology Section of the Department of Biological Sciences, Dana and David Dornsife College of Letters, Arts and Sciences, the University of Southern California, in Los Angeles, California, (<https://dornsife.usc.edu/mcb/>) invites applications for a tenure-track Assistant Professor position.

We are seeking an accomplished and innovative scientist studying biology at any scale - ranging from genomic and molecular processes, to cellular organization and function, to organismal development, to the impact of genetic variation. The ideal candidate will combine both experimental and computational approaches.

Candidates should have a Ph.D. and have demonstrated the ability to conduct independent research and to attract external research funding. Review of applications will begin December 1, 2022. Applicants should submit, in a single pdf file, a curriculum vita, a cover

letter, research, teaching, and diversity-equity-inclusion statements, as well as the contact information of three references. Information on USC's commitment to diversity, equity, and inclusion in the STEM fields can be found at <https://diversity.usc.edu/>. We encourage scientists who come from historically underrepresented groups or have non-traditional backgrounds to apply. In order to be considered for this position, applicants are required to submit an electronic USC application; follow this job link or paste in a browser: <https://usccareers.usc.edu/job/los-angeles/assistant-professor-of-molecular-and-computational-biology/-1209/36570986224> . For more information, please contact Dr. Matt Dean (matthew.dean@usc.edu).

USC is an equal-opportunity educator and employer, proudly pluralistic and firmly committed to providing equal opportunity for outstanding persons of every race, gender, creed and background. The university particularly encourages members of underrepresented groups, veterans and individuals with disabilities to apply. USC will make reasonable accommodations for qualified individuals with known disabilities unless doing so would result in an undue hardship. Further information is available by contacting uschr@usc.edu.

Matt Dean <matthew.dean@usc.edu>

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USussex ResearchTech InsectEcologyBehaviour

Research Technician - Insect Ecology and Behaviour
Ref 9443

School/department: School of Life Sciences Hours: part time hours considered up to a maximum of 27.4 hours per week. Requests for flexible working options will be considered (subject to business need). Contract: fixed term for 34 months Reference: 9443 Salary: starting at 27,131 to 31,411 per annum, pro rata if part time Placed on: 02 September 2022 Closing date: 29 September 2022. Applications must be received by midnight of the closing date. Expected Interview date: TBC Expected start date: 1 March 2023

Job description

We wish to appoint a research technician to work on the NERC-funded project "Living at the edge: causes

and consequences of individual variation in a changing world".

The project studies the effects of landscape fragmentation on behaviour, physiology, morphology, life history and related traits (and their covariation) in a forest-living ground beetle species using individuals living at an edge of a habitat and those at a core. The project combines both experimental and correlative approaches and applies a wide range of methods in the field and laboratory. These range from enclosure experiments, translocations, radio-telemetry, and behavioural and physiological assays.

You will be supervised by Dr Wiebke Schuett (Project Lead) and Prof Jeremy Niven (both School of Life Sciences) and will work closely with other members of the research team, including a postdoctoral research fellow and a PhD student.

Candidates would ideally have a BSc in animal behaviour, ecology or an allied biological science. We expect a highly motivated, talented, well-organised and meticulous candidate with experience in behavioural observations and excellent team-working ability. The candidate will have a background in one or more of behavioural ecology, insect physiology, evolution and/or ecology. Holding a Masters degree, having previous experience in collecting data in the field and/or of insect behaviour, in conducting physiological assays, in insect husbandry, and/or in genotyping is advantageous. Holding a driving license is desirable.

Potential candidates are strongly encouraged to make informal contact with Dr Wiebke Schuett (w.schuett@sussex.ac.uk; she/her) before applying.

Applications should be accompanied by a full CV, a cover letter (incl. motivation and how criteria are met) and the names of three academic referees.

For full details and how to apply see <https://www.sussex.ac.uk/about/jobs/research-tech-insect-eco-and-behaviour-ref-9443> The University of Sussex values the diversity of its staff and students and we welcome applicants from all backgrounds. You can find out more about our values and our EDI Strategy, Inclusive Sussex, on our webpages.

Download job description and person specification Ref 9443 [PDF 187.80KB] <https://www.sussex.ac.uk/about/documents/9443-fps.pdf> Wiebke Schuett <W.Schuett@sussex.ac.uk>

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UTexas El Paso Evolutionary Biologist

POSITION DESCRIPTION: The Department of Biological Sciences at The University of Texas at El Paso (UTEP) invites applications for a tenure-track assistant professor position for an Evolutionary Biologist. We are seeking highly collaborative candidates with expertise in the evolution of any non-model multi-cellular organism; however, we encourage applicants with expertise in mammalogy and ichthyology and an interest in serving in a curatorial role.

The anticipated appointment date is Fall 2023. The successful candidate is expected to (1) establish an extramurally funded research program; (2) teach and mentor undergraduate, masters, and doctoral students; and (3) have strong potential for collaboration across ecology and evolutionary biology (EEB).

ABOUT THE DEPARTMENT: The Department of Biological Sciences, with doctoral programs in EEB (<https://www.utep.edu/science/eeb/>) and Bioscience, is among the most productive departments at UTEP and contributes to interdisciplinary programs in Environmental Science and Engineering, Bioinformatics, Data Science, and Computational Science. Core facilities in the NIH-sponsored Border Biomedical Research Center include capacities for genomic sequencing, proteomics, bioinformatics, imaging, and statistics. The UTEP Biodiversity Collections, multiple vivaria, and the Indio Mountains Research Station provide additional research opportunities. A new state-of-the-art interdisciplinary research building provides space and resources for collaborative projects. More information is available at the Department of Biological Sciences website.

ABOUT UTEP: The University of Texas at El Paso is America's leading Hispanic-serving university. Located at the westernmost tip of Texas, where three states and two countries converge along the Rio Grande, UTEP is a public research university that transforms lives. More than half of our undergraduate students are the first in their families to go to college. At UTEP, our more than 24,000 students have access to 168 bachelor's, master's and doctoral degree programs in nine colleges and schools. Located in the second-most educated city in Texas, UTEP is recognized as one of the best research universities in the country for connecting students with the community around them.

REQUIRED QUALIFICATIONS: Applicants must have a Ph.D. or equivalent degree, postdoctoral research experience, and a strong record of research accomplishments.

APPLICATION PROCEDURES: Review of applications will begin immediately and will continue until the position is filled. Candidates should submit: a letter of interest; curriculum vitae; statement of research interests; a brief description of teaching philosophy; a statement of contributions to diversity, equity, inclusion, and accessibility; and complete contact information for at least three references.

To apply, please visit: <https://www.utep.edu/-employment> For questions contact: Michael Moody (mlmoody@utep.edu)

Hiring decisions are contingent on budget approval.

In keeping with its Access and Excellence mission, The University of Texas at El Paso is committed to an open, diverse, and inclusive learning and working environment that honors the talents, respects the differences, and nurtures the growth and development of all. We seek to attract faculty and staff who share our commitment.

The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, sexual orientation, or gender identity in employment or the provision of services in accordance with state and federal law. Discrimination on the basis of sex includes an employee's or prospective employee's right to be free from sexual harassment under Title IX of the Higher Education Amendments of 1972.

mlmoody@utep.edu

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UVirginia Evolutionary Biology

Assistant Professor $i\frac{1}{2}$ Evolutionary Biology

The University of Virginia invites applications for a tenure-track Assistant Professor appointment in Evolutionary Biology in the highly interdisciplinary Department of Biology. We seek applicants whose research addresses fundamental problems in any area of evolutionary biology and expands and complements existing strengths within the Department. The successful applicant will be expected to establish a rigorous, indepen-

dent, and externally funded research program and to teach at undergraduate and graduate levels. We seek to recruit faculty from diverse backgrounds who value diversity and are passionate about having a positive impact on society and the world. The position will begin August 23, 2023.

The Department of Biology and the University of Virginia provide resources to facilitate a wide range of research programs. The Department maintains Mountain Lake Biological Station and provides access to multiple other field sites. Research on a wide range of study systems is supported by modern animal care, greenhouse, and aquatic husbandry facilities, as well as access to the University's state-of-the art computing, genomics, metabolomics, and imaging facilities. Close ties with other Departments in the College of Arts and Sciences, as well as the Schools of Medicine, Data Science, and Engineering broaden the intellectual community of Department members.

Applicants must have a Ph.D., or equivalent degree, and post-doctoral research experience in Evolutionary Biology or a relevant field. A successful applicant will also have demonstrable research accomplishments and plans of outstanding quality and significance, as well as a commitment to excellence in teaching and mentoring. Enthusiasm for participating in a diverse, collegial, interdisciplinary, and collaborative environment is strongly preferred.

Apply online at https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/Assistant-Professor-of-Evolutionary-Biology_R0040071 and attach a cover letter that succinctly highlights your most significant research accomplishments, experiences, and qualifications; a curriculum vitae; a research statement that describes your vision for your research program at the university (â 3 pp); a statement on teaching and scientific mentoring detailing your experience and goals (â 2 pp); a statement on diversity, equity and inclusion describing your philosophy, activities, goals, or personal background (â 1 p); and contact information for three references.

The deadline for receipt of applications is October 15, 2022.

For questions regarding the position, please contact search chair Alan Bergland at evobiosearch@virginia.edu

For questions about the application process, please contact Rich Haverstrom, Faculty Search Advisor, at rkh6j@virginia.edu.

UVA assists faculty spouses and partners seeking employment in the Charlottesville area. To learn more please visit <http://provost.virginia.edu/dual-career> . For more

information about UVA and the surrounding area, please visit <http://uvacharge.virginia.edu/guide.html> . COVID Vaccination Requirement and Guidelines Please visit the UVA COVID-19 Job Requirements and Guidelines webpage prior to applying for current information regarding vaccination requirementsâ€andâ€guidelines for employment at UVA.

The University of Virginia, including the UVA Health System which represents the UVA Medical Center, Schools of Medicine and Nursing, UVA Physician's Group and the Claude Moore Health Sciences Library, are fundamentally committed to the diversity of our faculty and staff. We believe diversity is excellence expressing itself through every person's perspectives and lived experiences. We are equal opportunity and affirmative action employers. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender identity or expression, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), sexual orientation, veteran status, and family medical or genetic information.

"Bergland, Alan Olav (aob2x)" <aob2x@virginia.edu>
(to subscribe/unsubscribe the EvoDir send mail to golding@mcmaster.ca<<mailto:golding@mcmaster.ca>>) golding@mcmaster.ca<<mailto:golding@mcmaster.ca>>)

UWashington BurkeMuseum PlantCurator

Assistant Professor in Plant Systematics and Curator of the Herbarium at the Burke Museum

Title:Assistant Professor in Plant Systematics and Curator of the Herbarium at the Burke Museum <https://ap.washington.edu/ahr/position-details/?job.id=100019> The University of Washington (UW) Department of Biology is seeking a full-time, tenure-track Assistant Professor in PlantSystematics to also serve as Curator of the Herbarium at the Burke Museum of Natural History and Culture.

Positive factors for consideration include experience with collections-based research, broadly defined as managing-collections, curation, working with museum specimens, and/or contributing to educational and outreach in a museum setting. Additional positive factors include experiences and familiarity with collections digitization, mentoring collections-based undergraduate research, in-

volvement with citizen science projects, and public outreach.

The successful candidate will be expected to advocate for the collections. The successful candidate will be expected to pursue external funding to support collections maintenance, and access and expansion. The successful candidate will be expected to build community around the Herbarium with audiences ranging from undergraduate students to professional botanists and amateur enthusiasts.

The UW Department of Biology is a large collaborative and integrative department, spanning research areas from molecules to ecosystems. The Department provides a supportive research environment, and we particularly aim to foster a sense of belonging among all of our members at all levels. We seek a new faculty colleague who will actively contribute to and enhance our eclectic community, and who will be committed to supporting the success of trainees at any career level from a broad range of diverse backgrounds.

UW faculty members engage in scholarship, teaching, and service. This is a full time, tenure track, 9-month position and the anticipated starting date is September 16, 2023.

Qualifications Applicants must have earned a doctorate, or foreign equivalent, in the biological sciences or a related field by the date of appointment. Must have expertise in the diversity, systematics, phylogenomics, and evolution of plants, broadly defined. This includes studies of the patterns and underlying processes giving rise to plant diversity over time and across space, and broad-scale comparative studies that develop or use new methods or analytical tools to understand the evolution of plant form and function, and/or intrinsic and extrinsic factors that affect plant diversification.

Instructions Application link: https://ap.washington.edu/ahr/position-details/?job_id=100019 1) Four brief statements (200 words) summarizing: (a) your past research accomplishments, (b) your future research goals, (c) your perspective on mentorship, diversity, equity, and inclusion and (d) your experience with curation and collections-based research. You will have the opportunity to expand on your ideas in these short statements more fully in the full application (see below).

2) The names and email addresses of three references who will provide letters of recommendation upon request.

3) Web links to your three most significant publications. Manuscripts that are publicly available on preprint servers (such as bioRxiv or arXiv) are acceptable.

4) A list of up to 10 keywords that describe your research.

5) A merged PDF with:

- Cover letter describing why you are interested in joining the UW Department of Biology

- Curriculum Vitae, including your full publication list

- Research statement covering both past research accomplishments and future research goals (up to 3 pages)

- Teaching statement describing your teaching philosophy and specific plans for contributing to the educational mission of the UW Biology Department (1 page)

- Diversity statement discussing your perspective on barriers you have observed or overcome in your career and how those experiences have shaped your approaches to research, teaching, and mentoring. This is also an opportunity to briefly highlight important diversity, equity, and inclusion work you have done in the past, and how you will promote inclusion in your research and classroom environments at UW (1 page)

- Curation statement describing your experience with curation and collections-based research. This is an opportunity to highlight your vision for collection building, community building with museum audiences, and integration of collections with research, teaching, and outreach (1 page)

Questions about the search should be sent to: Professor and Curator Adam Leaché, leache@uw.edu. We will begin reviewing applications October 1, 2022.

Equal Employment Opportunity Statement

— / —

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UWolverhampton ResAssist Herpetological Genomics

24 month Research Assistant in Herpetological Genomics

Location: University of Wolverhampton, UK Deadline: Sunday 11th September Salary: £28,756 - 31,406 pa

Western Melanesia-including New Guinea-sits at the crossroads of Asia and Australia and is one of the most

interesting, puzzling, and understudied hyper diverse regions on Earth. Clarifying how tectonic movements have sundered or joined different Melanesian landforms in the past several million years is key to understanding the origins of this biotic diversity. The Research Assistant will generate data to help us investigate how the diversity and evolutionary history of the five major geological landforms that comprise most of western Melanesia have impacted evolution of that region's biota and to identify those ancient insular landmasses critical in the origin of lineages that colonised and radiated across New Guinea, Australia, and/or insular Asia. The project will use herpetofauna (reptiles and amphibians) to address these evolutionary questions. The research will help to replace the outdated, unidirectional "out-of-New-Guinea" model for origins of Pacific biodiversity with a more dynamic and nuanced understanding that ancient, yet under-appreciated, land areas in Melanesia have long been important in shaping biotic evolution in the broader region. The project will use a combination of traditional sequencing methods alongside ultra-conserved elements from fresh and historic museum samples (aka archival DNA) and analyse these data with respect to new geological models to be generated by a project partner.

We are seeking to appoint a research assistant to help study the Origins of Western Melanesian Diversity on a 24 month, fixed-term contract. This project is funded by a joint NERC-NSF grant to Dr Simon Maddock (University of Wolverhampton, UK) and Dr Fred Kraus (University of Michigan, USA). The position will be based in the School of Sciences at the University of Wolverhampton, UK. You will possess the skills and knowledge to generate high-quality molecular sequence data.

You will have completed an MSc in biological sciences or an equivalent subject and have experience of molecular and phylogenetic methods. You will be responsible for generating sequence data (Sanger and sequence capture), analysing data, co-supervising lab work by undergraduate and postgraduate students, and, if interested, disseminating research. Good communication and organisational skills are essential attributes.

For more details and to apply please see <https://jobs.wlv.ac.uk/vacancy/research-assistant-in-herpetological-genomics-496360.html> For an informal discussion about the post please contact Simon Maddock (s.maddock@wlv.ac.uk).

"Maddock, Simon" <S.Maddock@wlv.ac.uk>

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WakeForestU EvolutionaryBiology

Tenure-Track Assistant Professor in Evolutionary Biology at Wake Forest University

Link: https://wfu.wd1.myworkdayjobs.com/en-US/Faculty_Career_Website_live/details/Assistant-Professor-Evolutionary-Biology_R0004830-1 Job

Summary: The Wake Forest University Department of Biology invites applications for a tenure-track Assistant Professor in Evolutionary Biology who studies biodiversity and evolution of multicellular organisms in natural systems over long time scales. Areas of research could include phenotypic or genetic character evolution, evolutionary change within a focal lineage, and broader comparative patterns of change among lineages. We hope to enhance our department's expertise in plant, animal, and fungal systems, and in related tools such as comparative methods, phylogenetic analysis, and digital morphometric analysis.

Job Description:

Wake Forest Biology is a welcoming community committed to fostering diversity and achieving inclusive excellence in teaching and research. We seek colleagues who will share in our commitment. In pursuit of this, we strongly encourage applications from individuals from traditionally underrepresented and historically marginalized populations. The successful candidate will develop a thriving extramural research program that complements existing strengths in the Biology Department and enhances undergraduate, graduate, and postdoctoral training. We seek a teacher-scholar with a strong commitment to engaging students both in the classroom and through research mentorship at the undergraduate, M.S., and Ph.D. levels. Faculty will teach in the undergraduate core curriculum and will develop a specialized course suitable for advanced undergraduates and/or graduate students. Teaching responsibilities are consistent with our departmental commitment to research.

Faculty in the Department of Biology maintain long-term research programs in evolution and ecology across a range of focal scales, species, and systems, from viral molecular evolution to whole ecosystem change. Our existing departmental strengths in evolution and ecology are expected to be enhanced further in the coming years by several new hires in these disciplines. Outside the department, opportunities exist for collaboration with researchers from Mathematics, Statistics, Computer Sci-

ence, Chemistry, Physics, and the Center for Energy, Environment and Sustainability.

The Department of Biology has a strong commitment to training at all levels, including full-stipend support M.S. and Ph.D. programs. The quality of the undergraduate and graduate teaching environments is outstanding, and our faculty combine commitment to that mission with nationally and internationally recognized leadership in research. The Biology Department spans two WFU campuses (Reynolda Campus and Wake Downtown), and offers many shared facilities in support of research, including an herbarium, greenhouse, animal care facilities, and fully staffed microscopy facility. For more information about the department, visit biology.wfu.edu. Wake Forest University is an hour from the Blue Ridge of the Appalachian Mountains and a short drive from the Atlantic Ocean and offers excellent opportunities for developing a local field research program. Our colleagues in the Research Triangle and many other research universities are within easy driving distance.

To apply, go to hr.wfu.edu/careers and select Faculty Openings. Applications will be accepted until the position is filled, with review starting on October 15, 2022. Applications should include (i) a cover letter addressing motivation to join our teacher-scholar community (limit 1 page), (ii) a curriculum vitae (no page limit), (iii) a concise statement of past research activities and future directions (limit 3 pages), (iv) a statement of graduate and undergraduate teaching philosophy (limit 2 pages), and (v) a statement of how the applicant has demonstrated an ability or commitment to foster diversity and inclusion through teaching, research, and/or mentorship (limit 2 pages). We welcome statements that demonstrate integrative and collaborative approaches to science that would complement ongoing research within our scientifically diverse department. Letters of recommendation are not required at the time of submission. Selected applicants will be asked later to provide three letters of recommendation. All documents should be compiled as a single PDF file and submitted via hr.wfu.edu/careers. Inquiries about the application process and document submission should be directed to wakejobs@wfu.edu. Direct questions about the position to the Chair of the Search Committee, James Pease (evobiosearch@wfu.edu).

Additional Job Description

Wake Forest was recently rated the top employer in North Carolina by Forbes



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mcmaster.ca/~brian/evoldir.html

West Texas AMU Evolutionary Genetics

West Texas A&M University, a Member of The Texas A&M University System located in Canyon, Texas, invites applications for a tenure-track Assistant Professor position in Biology (65% teaching, 30% research, 5% service) with an emphasis in genetics. This full time (9 month) position at West Texas A&M University will include responsibilities in teaching (minimum of 9 ACH/semester), research, and service supportive of the biology, wildlife biology, environmental science, and biology education programs. Candidates with expertise in the application of modern molecular methods (e.g. genomics, bioinformatics) to the study of natural populations (e.g. population genetics/genomics, evolutionary biology, or wildlife biology) are encouraged to apply. Teaching duties will include existing or new courses within the successful candidate's area of expertise at the undergraduate and graduate levels, particularly related to areas of genetics and evolution. The successful candidate is expected to conduct research in some area of genetics, evolution, or wildlife biology and be amenable to collaboration with other faculty on relevant, genetics oriented projects; attract and secure extramural funding, publish in genuine peer reviewed journals, attend professional meetings, provide academic advisement to undergraduate and graduate students, engage students in research, and develop and deliver effective educational programs to the community.

Primary responsibilities include:

Teaching selected undergraduate and graduate courses, such as Genetics, Conservation Genetics, Evolution, and General Biology with the possibility of developing new courses based on candidate's experience and expertise.

Developing a dynamic research program by attracting new grants and opportunities that would allow undergraduate and graduate student participation.

Conducting professional service for the institution, academic field, and community.

Recruiting students for the undergraduate and graduate programs in Life, Earth, & Environmental Sciences

Advising students on matters of degree plans, course scheduling, and other academic matters

Necessary Qualifications:

An earned Ph.D. in Biology or related area from an accredited institution. ABD will not be considered.

Demonstrated experience and excellence in teaching related to the courses listed above.

Willingness to teach a minimum of 9 adjusted contact hours (ACH) per semester.

Competency in research as evidenced by publications in genuine peer-reviewed journals (full citations to be provided in CV, with DOI if applicable).

Demonstrated experience in seeking/obtaining extramural funding (including documentation of awards and amounts to be listed in the CV).

Excellent quantitative, computer, written, and oral communication skills.

Preferred Qualifications:

Familiarity with the diversity of modern genetic techniques/methodology.

Demonstrated ability and skills in leadership, mentoring, and building teamwork.

Experience in developing collaborative research with other scientists, research centers and/or agencies and organizations.

Previous administrative experience is desirable.

Applicant Instructions: We request the following items be included with the application:

Cover Letter of interest

Curriculum Vitae

Names and contact information for three references

A statement addressing teaching approach and philosophy

A research plan that includes how to involve both undergraduate and graduate students in research

A statement regarding the applicant's commitment to diversity, equity and inclusion

Please attach all documents in the attachment box at the bottom of the "My Experience" page before continuing through the application. Although the attachment box is labeled "CV/Resume," more than one document may be included. All revisions must be made prior to application submission. If you need assistance with downloading documents, please contact WTAMU Human Resources at hr@wtamu.edu.

*Review of applications will begin October 1 and continue until the position is filled. Salary and benefits are

competitive and commensurate with qualifications and experience.

Texas law requires all males age 18 through 25 to be properly registered with the Selective Service System.

All positions are security-sensitive. Applicants are subject to a criminal history investigation, and employment is contingent upon the institution's verification of credentials and/or other information required by the institution's procedures, including the completion of the criminal history check.

Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

James B. Johnson, Ph.D. Assistant Professor Department of Life, Earth and Environmental Sciences West Texas A&M University Canyon, Texas 79016

"Johnson, James B." <jbjohnson@wtamu.edu>

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West VirginiaU PlantEvolutionaryGenomics

Assistant Professor in Plant Genomics - Department of Biology- 20744

Description The Department of Biology at West Virginia University invites applications for an Assistant Professor of Biology with a specialization in Plant Genomics starting August 11, 2023. This is a 9-month, full-time, tenure-track position with full benefits. Although all research foci in plant evolutionary genomics will be considered, we strongly encourage those that integrate empirical and computational approaches and/or have a research emphasis in using large datasets to link population genomic variation to physiological processes to apply.

The teaching load is 2 courses or course equivalents per semester. The successful candidate will be expected to teach classes that complement the Department's current offerings at both the undergraduate and graduate levels and to develop courses in their area of expertise. Candidates who can teach courses on advanced population genomics and data analysis are encouraged to apply.

The Department of Biology offers both Bachelor of Arts and Bachelor of Science degrees and maintains

approximately 650 majors annually. We also serve over 1000 students through non-majors coursework. We offer students areas of emphasis in Genomics, Cellular and Molecular Biology, Ecology and Evolutionary Biology, and Neuroscience, which are aligned with the Department's research foci. The Department of Biology has over 40 graduate students in M.S. and Ph.D. programs with a strong track record of students receiving prestigious Department of Education, National Institutes of Health, and National Science Foundation fellowships. In addition to our research and teaching greenhouse, The Department is home to the WVU Genomics and Bioinformatics Core Facility and the Earl L. Core Arboretum which includes an old growth forest preserve that supports research, teaching, and service. Our Ecology and Evolutionary Biology group has benefited from the proximity of world-class field sites including the Fernow Experimental Forest which has gauged watershed experiments, the West Virginia University Forest which has multiple manipulations of forest management, and the new Summit Bechtel Reserve where a new 20ha forest dynamics plot has been recently established.

WVU is a R1 research land grant university located within 90 minutes of Pittsburgh and 3.5 hours from the Washington/Baltimore area. Morgantown has been recognized as one of the most livable small cities in the U.S. There are extensive recreational opportunities, excellent public schools, and a supportive University environment in which to develop a visible and productive career. The WVU Dual Career Program is available to assist candidates with suitable employment opportunities for spouses or partners.

To apply, please visit WVU Careers, navigate to the position title listed above, and upload each application document individually, including: 1) a cover letter; 2) curriculum vitae; 3) up to three representative publications; 4) a statement of future research plans (3 page maximum); 5) a teaching statement (1 page maximum); 6) contact information for three references.

Review of completed applications will begin on October 17, 2022 and will continue until the position is filled. For more information about the position, contact Dr. Craig F. Barrett at craig.barrett@mail.wvu.edu.

Qualifications The successful candidate must have: 1) a PhD or equivalent degree in plant genomics or related field; 2) a strong record of scholarly publications; 3) demonstrated success in interdisciplinary and collaborative research; 4) excellent written and oral communication skills; 5) demonstrated ability to develop an externally funded, independent research program; 6) strong potential for outstanding contribution to the Department's undergraduate and graduate teaching and

research missions.

At West Virginia University, we leverage our talents and resources to create a better future for our state and the world. As West Virginia's land-grant university, WVU has three campuses that touch each corner of the state. The WVU System includes 518 buildings on 15,880 acres, Extension Service offices in all 55 counties, ten experimental farms and four forests.

From the groundbreaking R1 research of our flagship campus in Morgantown to the career-oriented programs of WVU Potomac State in Keyser to the technology-intensive programs at WVU Tech in Beckley the contributions of WVU employees directly impact the 1.8 million people of West Virginia every day, no matter their role or position.

Service, curiosity, respect, accountability, and appreciation are the core values that unite Mountaineers, inspiring one another to work tirelessly and support others as they seek to reach new heights. After all, when you're a Mountaineer, impossible is just another mountain to climb.

Creating an inclusive, engaged, and dynamic learning environment is core



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YaleU MicrobialEvolution

Yale University The Microbial Sciences Institute (MSI) at Yale University, in partnership with the Department of Ecology and Evolutionary Biology (E&EB), seeks applicants for an open-rank (tenure-track or tenured) faculty position in microbial ecology, microbial evolution, or the intersection of these fields. The MSI (<http://microbialsciences.yale.edu>) is a central hub where research teams from multiple departments contribute broad perspectives, approaches, and expertise in microbiology. Current research areas include biology of microbial communities, host-microbe interaction, and structural biology of microbial metabolism. The MSI values deep exploration of the microbial world, prizes mentorship and interaction, and aims to push the boundaries of microbiology. The E&EB department (<http://eeb.yale.edu>) is home to broad, interdisciplinary, and

highly collaborative research with particular expertise in population, community, and ecosystem ecology, macroecology, and disease ecology and evolution; in evolutionary genetics, developmental evolution, behavioral evolution, and evolutionary medicine; and in phylogenetics, systematics, and biodiversity.

Applications will be evaluated for alignment with both the MSI and E&EB, with a target start date of July 1, 2023. The position includes a full (primary) appointment in E&EB within the Faculty of Arts and Sciences, in addition to colleagues and research space in MSI. MSI and E&EB strive to foster a diverse, inclusive, and supportive community, and the application includes a personal statement to describe your perspective on the opportunities and challenges in building an equitable and inclusive environment. Women, protected veterans, persons with disabilities, and members of underrepresented minority groups are strongly encouraged to apply.

Candidates must hold a Ph.D. or equivalent degree, and communication skills conducive to excellence in teaching at both the undergraduate and graduate levels are necessary. Applications should contain: §cover letter §curriculum vitae §description of previous research (1 page) §statement of research plans (up to 3

pages) §teaching statement (1 page) §personal statement §reprints of up to 4 publications §3 confidential letters of recommendation (for assistant professor candidates)

Please apply through the Interfolio website: <http://apply.interfolio.com/113041> To answer questions about MSI and E&EB, the search process and faculty position, and our commitment to supporting and mentoring junior faculty, we will host a Q&A session by Zoom in early fall 2022 - check the MSI website for details. Review of applications will begin November 1, 2022, and continue until the position is filled. Inquiries about the position may be sent to the attention of Dr. Andrew Goodman, Director of the Microbial Sciences Institute, c/o Bianca Abreu (bianca.abreu@yale.edu).

Equal Employment Opportunity Statement:

Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.

“Abreu, Bianca” <bianca.abreu@yale.edu>

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CIGENE SeminarSeries

Hi all,

The CIGENE seminar series will start up in October, with speakers representing different areas within genetics, ecology and evolution. We are very pleased with the program and look forward to many interesting pre-

sentations in the upcoming months.

Please visit our seminar page for more info. <https://cigene.no/cigene-seminar-series/> Date Speaker Topic Affiliation 12/10/2022 Justin Merondun cuckoo egg mimicry PhD candidate at LMU Munich 19/10/2022 Kenji Takata coral molecular ecology PhD candidate at UTokyo 26/10/2022 Helle Tessand Baalsrud cod evolution Senior Postdoc, NMBU 02/11/2022 Louise Chavarie salmon ecology Associate Prof, NMBU 09/11/2022 Eric Vespoor phylogeography/population genetics Prof, University of the Highlands and Islands 16/11/2022 Linnea

Smeds wolf genomics PhD candidate, Uppsala University
 30/11/2022 Ryota Hasegawa salmon parasite PhD candidate at UHokkaido 07/12/2022 Tanja Pyhäjärvi forest evolutionary genetics Prof. University of Helsinki

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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DSN normalization

Hello,

We plan to perform Expressed Exome Capture Sequencing (EecSeq) (Puritz and Lotterhos 2018) experiment that includes duplex-specific nuclease (DSN) normalization of cDNA libraries. The DSN kit is produced by Evrogen company (cat.# EA001) that is based in Russia, and there are currently no options to purchase the reagent due to the war embargo. After checking all available options, I still don't have an idea where I could get it from. Maybe there is someone out there who could share the kit now so I can rebuy it when it's possible?

Or maybe someone has experience how the normalization step can be replaced?

Best regards, Aleksandra Biedrzycka

Instytut Ochrony Przyrody Polskiej Akademii Nauk Al. Mickiewicza 33 31-120 Kraków Tel. +48 12 370 35 53

Institute of Nature Conservation Polish Academy of Sciences Al. Mickiewicza 33 31-120 Kraków, Poland phone +48 12 370 35 53

Aleksandra Biedrzycka <biedrzycka@iop.krakow.pl>

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ESEB ProgressProposals GlobalEvolBiolProjects

PROGRESS MEETINGS IN EVOLUTIONARY BIOLOGY

We are excited to announce the next round of this initiative by the European Society of Evolutionary Biology (ESEB), in partnership with the Journal of Evolutionary Biology (JEB).

We invite applications for funding to support focussed conference or workshops on a topical issue where rapid progress is currently being made in understanding Evolutionary Biology. ESEB will supply funds up to 15,000 Euro to assist with workshop planning (venue, travel or attendance support). We encourage proposals on any topic.

We expect these meetings to bring together a range of researchers focussed around a topic for a "state of the art" conference, ideally proposing a new synthesis, viewpoint or technical or analytical breakthrough facilitating new avenues of research. Attendees would represent researchers from all career stages and must accord with our Equal Opportunities guidelines. Attendance should be open to all, but ESEB members should be prioritised. Typically, meetings would last 2-3 days.

An important condition of the funding is that the meeting has a clear objective to produce either a Special Issue or Target Review for JEB. Organisers should aim to have the manuscript(s) produced within 4 months of the end of the meeting, and should detail how this will be done in their applications. In the case of a Special Issue, the organisers of the meeting or appropriate nominees may serve as Guest Editors (where appropriate), handling the peer review process for manuscripts arising from the meeting with assistance from JEB editors.

There will be one call for applications per year, with this year's deadline being NOVEMBER 15, 2022. Applicants should be members of ESEB or our sister society, the Society for the Study of Evolution.

There is no official application form. The application document should include

- The title of the conference and why this is suitable for a Progress Meeting.
- Names and addresses of the organisers, with short (1 page each) CVs
- List of keynote speakers, with justification (potentially key recent references).

They should have agreed in principle to participate - A 2-page description of the aims and potential scope of the conference - Conference venue details - Methods of selecting participants - Publication plans

Queries and applications should be submitted to the ESEB Office (office@eseb.org) by the deadline. Please contact the ESEB office again, if we have not confirmed receipt of your application within a week. The successful application will be chosen by an ESEB committee.

Luke Holman (chair), Reviews Editor, JEB Max Reuter, Editor in Chief, JEB Mike Ritchie, former Editor in Chief, JEB Tanja Schwander, Deciding Editor and former Special Issue Editor, JEB

European Society for Evolutionary Biology Email: office@eseb.org Website: eseb.org

ESEB GLOBAL EVOLUTIONARY BIOLOGY INITIATIVE (GEBI) - Call for projects

ESEB aims to foster the development and integration of local evolutionary research communities from regions outside of the traditional strongholds of the discipline and their links with the evolutionary biology community in Europe. To address this need, we recently transformed the Global Training Initiative, mainly focused on supporting training activities, to the Global Evolutionary Biology Initiative (GEBI) which can provide financial, organisational and strategic support as required (<https://eseb.org/prizes-funding/-global-evolutionary-biology-initiative/>).

GEBI now welcomes applications to support new projects in line with its aims (examples include meetings to establish or strengthen local researcher networks, conducting hands-on workshops to disseminate new tools or methods, or developing curricula for teaching).

THE DEADLINE FOR THE CALL IS NOVEMBER 25th, 2022.

Applications should include a concise (up to two pages) description of the proposed activity and a detailed budget (in particular 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 confer-

ences 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!

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FrontiersInGenetics EmergingTalents

Dear Colleagues,

Here is a great opportunity for current students to publish their research.

I am serving as a co-editor of a Frontiers in Genetics “Emerging Talents in...” collection, a series that will highlight the recent work of student researchers in Evolutionary and Population Genetics.

For a manuscript to be eligible, the first and/or collaborating first and second authors must be registered undergraduate or graduate student(s) at the time of submission.

The interactive review system at Frontiers helps assure transparent and constructive review of manuscripts. Further, the editors of this collection are dedicated to supportive feedback on manuscripts submitted for this collection.

Find more information at: <https://www.frontiersin.org/-research-topics/44266/emerging-talents-in-evolutionary-and-population-genetics-2022> Sincerely, Matt

Matthew B. Hamilton, PhD Associate Professor Georgetown University Department of Biology, Regents Hall 506 37th and O Streets NW Washington, DC 20057 202-687-5924 office <http://hamiltonlabpage.weebly.com> hamiltm1@georgetown.edu

Okinawa Theoretical Sciences Visiting Program

Please see below regarding an opportunity for sabbatical visits and thematic programs as part as OIST's Theoretical Visiting Scientist Program. This program is open to (among others) evolutionary theorists and those developing quantitative methods for data analysis in evolutionary biology. The deadline listed as Sept 30 guarantees full consideration, but applications received sufficiently early in October will still be considered (please contact tsvp@oist.jp in this case to confirm in advance).

1. Open Call for Visiting Scholars in the Theoretical Sciences (April 2023-March 2024)

<goog_886830968> <https://groups.oist.jp/tsvp/-application-visiting-scholars> The Okinawa Institute of Science and Technology (OIST) is inviting applications for Visiting Scholars through its Theoretical Sciences Visiting Program (TSVP).

The TSVP was launched in June 2021, with the goal of bringing leading theoretical researchers to OIST for extended visits. In keeping with OIST's interdisciplinary mission, the program spans all theoretical sciences including, but not limited to, mathematics, theoretical physics, computational sciences, and theoretical life sciences.

Visiting Scholars will have the opportunity to carry out independent research at OIST, and to interact with one or more OIST Research Units during their stay. Visits will usually be of 3 to 12 months, with support provided for travel, accommodation and living expenses at the level of per diem. No teaching duties come with the position. However, Visiting Scholars are expected to give a general-audience lecture about their field of research within the first month of their visit.

Appointment as Visiting Scholar may be taken while on leave or sabbatical from another university. In exceptional situations, where the applicant does not receive any salary from grants or their institution at the time of their visit to OIST, successful candidates may be able to apply for support with salary, where this is necessary to facilitate the visit, and they can provide evidence of their need. Visits of 1 to 3 months may also be approved where special circumstances prevent a longer visit.

OIST is an institution with no departments, which aims

to eliminate barriers between people working in different fields. We are an equal opportunity educator and employer and are working actively toward increasing the diversity of our faculty, students, and staff. We have implemented policies to promote a diverse, inclusive, and family-friendly culture. These include supporting dual career couples, gender neutral facilities, "stop the clock" options, and on-site child care. Further details can be found at <https://www.oist.jp/>. 2. Open Call for Pre-Proposals for Thematic Programs in Theoretical Sciences

<https://groups.oist.jp/tsvp/proposal-thematic-programs> The Okinawa Institute of Science and Technology (OIST) is excited to launch Thematic Activity as new part of its Theoretical Sciences Visiting Program (TSVP), with this call for pre-proposals.

The TSVP was launched in June 2021, with the goal of bringing leading theoretical researchers to OIST for extended visits. In keeping with OIST's interdisciplinary mission, the program spans all theoretical sciences including, but not limited to, mathematics, theoretical physics, computational sciences, and theoretical life sciences.

Thematic Programs (TPs) are expected to be held at OIST for 2 weeks to 3 months, starting in the second half of 2023. TPs will be hosted by a group of two or more researchers (coordinators) who will be invited to stay at OIST for the duration of the TP. Successful proposals will be provided with the financial and administrative support needed to bring participants to OIST, 4-8 of whom are expected to be present at any one time. Where it fits the goals and timeframe of the program, a symposium linked to the program can be hosted at OIST.

Evan P. Economo Professor Biodiversity and Biocomplexity Unit Okinawa Institute of Science and Technology Graduate University 1919-1 Tancha Onna-son Okinawa, Japan 904-0495

Phillipines TeachingHighSchool Biodiversity

Teach General Biology and Research methods at a private high school in the Philippines and help develop and catalog an intertidal invertebrate biodiversity project. The deadline is November 15th, 2022

Science Corps is looking for 1 broadly trained evolu-

tionary biologist, with a recent PhD (up to four years after graduation), for a fully paid fellowship to help build science capacity at our partner location, CVIF in Jagna, Bohol, Philippines. The Central Visayan Institute Foundation (CVIF) is a private highschool that serves as a host location for Science Corps Fellows. The fellowship is for late spring or early summer 2023. CVIF is looking for a PhD level evolutionary biologist to teach Biology and help the research team at the school develop MinION sequencing to produce a gene bank for phylum Mollusca from the Bohol Sea (as baseline data).

Science Corps is a small group of scientists running a non-profit that sends recent PhD graduates to teach science abroad. Fellows travel to partner institutions to develop science curriculum, teach in secondary school classrooms, and build community-based research projects. In addition to building science capacity at these host locations, we also aim to offer fellows a life-changing experience. They are given the opportunity to spend time in beautiful locations, immerse themselves in different cultures, and learn from their host educators—all while making positive contributions to these communities.

The deadline for this specific fellowship opportunity for an evolutionary biologist in the Philippines is November 15th, but we still encourage you to contact us if you would like to be considered for a later appointment.

To find out more about us and apply, please go to

<https://science-corps.org> Stephen E. Harris, Ph.D. Assistant Professor of Biology, Purchase College SUNY < <https://www.purchase.edu/live/profiles/-1759-stephen-harris> > Cofounder, Science-Corps < <http://www.science-corps.org/> > (614) 915-4686 stephen.harris@purchase.edu

Stephen Harris <harris.stephen.e@gmail.com>

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SSB CallForProposals WorkshopsAndSymposia

The Society of Systematic Biologists (SSB) invites proposals for symposia and workshops.

To submit a proposal for a workshop at our January, 2023 meeting in Mexico City, please see the instructions at:

<https://web.ib.unam.mx/ib/ssb2023/workshops/> To

submit a proposal for a symposium or a workshop at the June, 2023 Evolution meetings in Albuquerque, New Mexico, USA, please see the instructions at:

<https://www.systbio.org/symposium-proposal-submission.html>

Sincerely, Mark Holder (SSB program director)

programdirector@systematicbiologists.org

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WebinarSeries PopulationGeneticsVienna

Dear colleagues,

The Vienna Graduate School of Population Genetics runs an internationally recognized seminar series featuring weekly talks by leading experts in population genetics. We invite interested listeners to join our webinars during the upcoming Summer term (Tuesdays at 17:00 CET/CEST).

Sign up here to receive webinar announcements and zoom links for the upcoming term: <https://forms.gle/-QCSyhX5uhB46aMzeA> Upcoming webinars:

impromptu: Friday, 16.09.22 - David Stern (Janelia Research Campus, US) Toward an understanding of the mechanisms of plant gall induction by aphids.

11.10.22 - Loren Rieseberg (Univ. of British Columbia, CA) Recombination and speciation.

18.10.22 - Justin Fay (Univ. of Rochester, US) Evolution of thermal tolerance in *Saccharomyces*.

25.10.22 - Dan Schrider (Univ. of North Carolina at Chapel Hill, US) Automating my own job: machine learning for evolutionary genetics.

08.11.22 - Kateryna Makova (Pennsylvania State Univ., US) Non-B DNA structures and evolution of our genomes.

15.11.22 - Martin Polz (Univ. of Vienna, AT) The eco-evolutionary dynamics of bacteria and their viruses in the wild.

22.11.22 - Mihaela Pavlicev (Univ. of Vienna, AT) No preterm birth, at the cost of endometriosis? Antagonistic pleiotropy of a SNP in human reproductive traits.

29.11.22 - Franz Baumdicker (Univ. Tübingen, DE) title tba

13.12.22 - Wesley Warren (Univ. of Missouri, US) The power and limitations of sequence variation discovery with trait consequences.

10.01.23 - Li Zhao (The Rockefeller Univ., US) The origin and evolution of genetic and functional innovation.

17.01.23 - Joana Meier (Wellcome Sanger Inst. & Univ. of Cambridge, UK) Rapid speciation fueled by admixture.

24.01.23 - Tatiana Giraud (Université Paris-Saclay, FR) A new general theory for the evolution of sex chromosomes and other supergenes.

31.01.23 - Bret Payseur (Univ. of Wisconsin - Madison, US) Evolution of recombination rate on broad and fine genomic scales.

All webinars organised by the Vienna Graduate School of Population Genetics are available

on our website <https://www.popgen-vienna.at/news/-seminars/> Most talks are recorded and can be found on youtube: <https://www.youtube.com/channel/UCAdGx2zyQNYVti9Cr1muhUg> – Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at <https://twitter.com/-PopGenViennaPhD> c/o Institut für Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

T +43 1 25077 4302

“Julia.Hosp@vetmeduni.ac.at”

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AarhusU MutationalProcesses InSpermatogenesis

Postdoc in “Mutational processes during spermatogenesis and their consequences”. Deadline October 1

The Bioinformatics Research Centre at Aarhus University (Denmark) invites you to apply for a 2-years post-doctoral position in the field of bioinformatic and statistical genomics.

You have a PhD and proven research experience in bioinformatics, population and/or statistical genomics. You will join a multi-disciplinary team where you will contribute both new analytical frameworks and data analysis of both publicly available and in house generated data. The data will consist of deep sequencing of testis and sperm samples from men of different ages. The aim is to acquire basic understanding of the mutational and selective processes that occurs during spermatogenesis and to provide a prediction framework for estimating the risk of severe disease directly from sequencing sperm.

Expected start date and duration of employment This is a 2'year position with earliest start date December 1, 2022 or as soon possible after that. Extension might be possible.

Job description Within the larger project field, it will be flexible whether you will focus on methods development, data analysis, or both. We value independence and offer substantial latitude for you to define your own research project within the broader scope of the collaborative project.

Possibilities include, but are not restricted to

- Creating and using bioinformatics workflows for the detection of de novo mutations from Illumina and Pacbio HIFI data
- Predictions of the phenotypic effect of mutations
- Modelling of the selection process on de novo mutations at the spermatogenesis stage, the mature sperm state and the mutation passed on to children (from trio data)
- Analysis and modelling of the mutational spectrum using non-negative matrix factorisation approaches

The project is funded by the Novo Nordisk foundation as an interdisciplinary Data Science collaborative project between Aarhus University (data science) and the Department of Growth and Reproduction at Copenhagen University Hospital (PI Kristian Almstrup, data generation). You will be supervised by PIs at the Bioinformatics Research Centre (Mikkel Heide Schierup & Thomas Bataillon) in close collaboration with research groups at the Department of Mathematics (PI Asger Hobolth), and the Department of Molecular Medicine (PI Søren Besenbacher)

Your profile Applicants should hold a PhD in bioinformatics, population/statistical genetics or statistics. The following skills will be an advantage

- Proven experience in handling and analysing large genomic datasets
- Proficient knowledge of coding in R/Python and high performance cluster environments.
- Interest in evolutionary genetics and genome evolution, and experience in bioinformatics.
- High communication (verbal and written) and organizational skills are essential

Who we are At BiRC we focus on developing computational methods for collecting, handling and analyzing genomic data. Research ranges from formulating models and theories about genome evolution, to constructing algorithms and developing computer programs to implement new analytical methods. We have has a strong emphasis on molecular and genome evolution, molecular population genetics, firmly grounded in statistical and algorithmic approaches to bioinformatics. Our research spans from addressing purely theoretical questions, to program development, applications to large empirical datasets.

See <https://birc.au.dk/> What we offer The Bioinformatics Research Centre (BiRC) offers:

State of the art genomic data and computing facilities, an exciting interdisciplinary environment with many national, and international collaborators a research climate encouraging lively, open and critical discussion within and across different fields of research a work environment with close working relationships, networking and social activities a workplace characterised by professionalism, equality and a healthy work-life balance.

Place of work and area of employment The place of work

is Bioinformatics Research Center Universitetsbyen 81,
3. Building 1872 DK-8000 Aarhus C.

Contact information Mikkel Schierup
(mheide@birc.au.dk, +4527782889) Thomas Bataillon
(tbata@birc.au.dk, +45 27827282)

Apply before October 1, 2022 through

<https://international.au.dk/about/profile/vacant-positions/job/postdoc-in-mutational-processes-during-spermatogenesis-and-their-consequences> Deadline Applications must be received no later than October 1, 2022.

Mikkel HeideSchierup Novo Nordisk Distinguished Investigator Bioinformatics Research Centre, Aarhus University, CF Mollers Alle Building 1110, 8000 Aarhus C Denmark Ph: +4527782889 Email:mheide@birc.au.dk

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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>

Berlin EvolBiology CallApplications

Call for applications: College for Life Sciences Fellowships <https://www.wiko-berlin.de/fellow-werden/-fellowships/college-for-life-sciences/application/gain-time-to-think-2023-24> Postdocs, junior group leaders. Deadline: November 01, 2022

The Wissenschaftskolleg zu Berlin (Institute for Advanced Study) is launching its call for applications for our 3-5-months Fellowships 2023-2024.

We are looking for excellent early career researchers in the life/natural sciences and medicine.

Jana Petri <peja@wiko-berlin.de>

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BrookhavenNatlLab Bioinformatics

<https://jobs.bnl.gov/job/upton/post-doctoral-research-associate-biology/3437/36765150336> Post-Doctoral Research Associate Biology Job ID3407Date posted9/23/2022

Brookhaven National Laboratory (www.bnl.gov) delivers discovery science and transformative technology to power and secure the nation's future. Brookhaven Lab is a multidisciplinary laboratory with seven Nobel Prize-winning discoveries, 37 R&D 100 Awards, and more than 70 years of pioneering research. The Lab is primarily supported by the U.S. Department of Energy's (DOE) Office of Science. Brookhaven Science Associates (BSA) operates and manages the Laboratory for DOE. BSA is a partnership between Battelle and The Research Foundation for the State University of New York on behalf of Stony Brook University. BSA salutes our veterans and active military members with careers that leverage the skills and unique experience they gained while serving our country. Our organization fully supports service members transitioning from active duty to civilian life and pledge's our commitment to actively hire veterans of the U.S. Armed Forces. Military personnel who have been formally trained or have relevant experience obtained while in service may meet educational requirements and are encouraged to apply for job opportunities at BSA.

Organizational Overview

Researchers in the Biology Department at Brookhaven National Laboratory seek to unravel and fully describe the complexities of biological systems from how plants make oils and other products to the role of proteins in disease. Our work helps to develop and makes use of the tools and techniques of biochemistry, molecular genetics, and structural biology. We also leverage the unique capabilities of Brookhaven's National Synchrotron Light Source-II and Center for Functional Nanomaterials, major research facilities open to scientists from around the world. Our research makes important contributions to fulfilling the missions of the U.S. Department of Energy's Office of Basic Energy Sciences and Office of Biological and Environmental Research. In addition, togetherwith the Collider-Accelerator Department, the Biology Department manages the NASA Space Radiation Laboratory (NSRL) at Brookhaven, which is used by radiobiologists and physicists to study the effects of

space radiation on both living and non-living systems with the aim of protecting future astronauts.

Position Description

We are seeking a bioinformatician to analyze genome wide transcriptomic responses to stress in plants and microbes for functional genomic studies. The post doc will be involved in many exciting projects using newly assembled reference genomes of host plants and nitrogen-fixing symbiotic microbes. We are particularly interested in genes that can enhance tolerance to stress or toxic environments. Incorporation of evolutionary and/or ecological aspects and analyses into this research is highly encouraged. The research is essential to meet the DOE's Biological and Environmental Research (BER) mission to use genome-enabled approaches to understand the relationship between soil biogeochemistry, nutrient cycling by plants, and the movement or transport of metals ions from soils into plant biomass. (<https://www.energy.gov/science/ber/biological-and-environmental-research>)

This position has a high level of interaction with an international and multicultural scientific community, including the Joint Genome Institute (JGI) and the Environmental Molecular Sciences Laboratory (EMSL), both DOE run facilities. The research will support two JGI funded community science awards (New Investigator and Functional Genomics).

Position Requirements

Essential Duties and Responsibilities:

- Quantify gene expression changes in response to stress treatments such as heavy metals, temperature, drought.
- Assess the role of gene duplications on expression level.
- Identify candidate genes that provide greater tolerance to stress.
- Develop statistical pipelines to identify differentially expressed genes and co-expression networks.
- Integrate genome wide association study (GWAS) candidates with transcriptomics data to identify target genes for functional studies.

Required Knowledge, Skills, and Abilities: - Requires a Ph.D. in bioinformatics or biology with focus on genomics, or computational biology, evolutionary genomics, plant genomics/agricultural genomics or related field.

- Experience mapping and analyzing RNA-seq data, including differential expression analysis (e.g. DESeq, edgeR).
- Ability to install and use bioinformatics software (i.e., samtools, BWA, GATK, plink) in a Linux framework.

- Proficient in one or more programming languages such as python or perl, and ability to write and modify scripts in R.

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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/evodir.html>

CNRS Moulis Evolutionary Genomics

Post-doctoral position in Moulis (France) - Evolutionary genomics of a meta-experiment - 24 months

<https://emploi.cnrs.fr/Offres/CDD/UAR2029-DELLEG-003/Default.aspx?lang=EN>

We are looking to hire a 2-year postdoctoral researcher (PDR) from the 1st of January 2023 to the 31st of December 2024 to analyze the genomic data of a large evolution meta-experiment, carried out in parallel on a range of model organisms (from viruses to plants). This work is part of the project ComplexAdapt, funded by the program BiodivOc (<https://biodivoc.edu.umontpellier.fr/>) from the region Occitanie, and the experiments are performed by different research groups from the consortium ExpEvolOcc. The objective is to understand how the complexity of environmental stress (one or more challenges) impacts genome structures and on the rate of adaptation. All the groups have evolved one or several organisms under various environmental conditions in a replicated design and will generate genomic sequences of the ancestral and evolved individuals or populations. The aim of the postdoctoral project will be to jointly analyze all these datasets, to reveal the effect of environmental complexity on the genomics of adaptation, from the rate of genomic evolution to the molecular targets of adaptation, or the level of genetic convergence within and across species.

Supervision: The PDR will be based at the Station d'écologie théorique et expérimentale (<https://sete-moulis-cnrs.fr/en/>, CHANGE team) in Moulis, and will be jointly advised by Hervé PHILIPPE, Delphine LEGRAND (SETE), and Philippe REMIGI (LIPME, Toulouse). The PDR will also benefit from additional input from other members of the consortium, who will bring their expertise in population genomics, as well as on the genomic specificities of each

experimental system. Obviously, the PDR will regularly interact with all involved laboratories, to assess the accuracy of the analyses in the light of the biological knowledge of each particular system.

Broader context: The Theoretical and Experimental Ecology Station is a CNRS lab situated in the Pyrenees, gathering recognized ecologists and evolutionists (both experimentalists and theoreticians), and hosting unique experimental platforms (<https://sete-moulis-cnrs.fr/en/>). It is about one hour and a half from Toulouse, the two sites exchanging regularly through several scientific consortia. The PDR will also interact on a regular basis with all members of the consortium ExpEvolOcc, based in institutes with very strong departments in evolution (CEFE, ISEM), microbiology (IHPE, LIPME, BIOM, SPO), or infectious diseases (MIVEGEC) providing a unique opportunity to build her/his academic network. In addition, the PDR will work alongside another PDR (located in Montpellier) who will be recruited to analyze the phenotypic data from these experiments.

Requirements:

- Demonstrated strong expertise in advanced bioinformatics analyses: whole genome sequence analyses (eukaryotes and/or prokaryotes), identification of SNPs or structural variants, associated statistical analyses...
- Solid organizational skills: handling, storing and analyzing WGS data originating from various organisms
- Excellent relational abilities: Capacity to work on a large collaborative project, requiring numerous exchanges with network members
- Interest for genomics, evolution and ecology, especially the dynamics of adaptation to new environments (theory, experiments), experimental evolution, microbial ecology/evolution, and/or population dynamics.

Salary: Wage will follow rules from the CNRS, and will depend notably on experience. French salaries include social benefits such as health insurance.

Contact: Candidates have to send their CV, motivation letter and potential recommendation letters before the 15th of October to Philippe Remigi (Philippe.Remigi@inrae.fr), Hervé Philippe (herve.philippe@sete.cnrs.fr) and Delphine Legrand (delphine.legrand@sete.cnrs.fr). Applications have also to be done on the CNRS platform at this link <https://emploi.cnrs.fr/Offres/CDD/UAR2029-DELLEG-003/Default.aspx>. Philippe Remigi <Philippe.Remigi@inrae.fr>

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EPFL Switzerland ProteinSequencesFunction

Dear colleagues,

I am pleased to announce an opening for an ERC-funded postdoctoral position about the sequence-function relationship in proteins in my group at EPFL (Ecole Polytechnique Federale de Lausanne, Switzerland).

To apply, please send a cover letter, a complete CV and copies of transcripts to anne-florence.bitbol@epfl.ch by October 1.

The start date is flexible. More information is available at <https://www.epfl.ch/labs/bitbol-lab/join-us/> Best regards, Anne-Florence Bitbol

Anne-Florence Bitbol <anne-florence.bitbol@epfl.ch>

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FieldMuseum Chicago BiodiversityInformatics

The Grainger Bioinformatics Center at the Field Museum invites proposals for a 2-year postdoctoral research position in biodiversity data science. The successful applicant will conduct original research on the analysis or acquisition of digitized specimen data for studies of biogeography, ecological networks, phenology, or related topics. We are especially interested in projects involving one or more aspects of big data, machine learning, crowdsourcing, innovative methods of capturing data from specimen labels and phenotypes, and questions on the ecology and evolution of species, clades, or communities.

Applicants are encouraged to contact Richard Ree <rree@fieldmuseum.org> in advance to discuss project ideas. Applications will be evaluated by the Grainger Bioinformatics Center steering committee based on the candidate's qualifications and the strength of their research proposal.

Application Requirements

Applicants must have completed a PhD before the start of the term.

Applications should include the following: 1. Research proposal, written for a general scientific audience, as a PDF document no longer than four letter-sized pages with 12-point font for all text (including figure captions and tables) and one-inch margin on all sides. A bibliographic reference list is required but does not count toward the page limit. 2. A budget for research expenses, including travel, not exceeding \$10,000 per year. 3. CV, including a list of publications and contact information for three references. 4. PDFs of up to 3 peer-reviewed publications.

To apply, please send all materials to rree@fieldmuseum.org. Review of applications will start January 2, 2023.

The Field Museum is committed to equity, diversity, and inclusion and we encourage individuals from underrepresented groups in the sciences to apply. We strive to create a working environment that is free of sexual, racial, and ethnic discrimination, and one that promotes human dignity and mutual respect among all staff. As such, it is the policy of the Field Museum to hire without discrimination regarding race, religion, color, national origin, age, sex, sexual orientation, disability, or veteran status.

Richard Ree Curator of Flowering Plants | Head of Life Sciences Negaunee Integrative Research Center Co-Director, Grainger Bioinformatics Center < <https://www.fieldmuseum.org/science/labs/grainger-bioinformatics-center> > Field Museum < <https://www.fieldmuseum.org> > | 1400 S DuSable Lake Shore Drive, Chicago IL 60605, USA (+1) 312-665-7857 | www.reelab.net | pronouns: he/him/his

rree@fieldmuseum.org

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Gif-sur-Yvette France DrosophilaEvolution

Postdoc in Drosophila evolutionary neurogenomics General information Reference : UMR9191-AMIYAS-001 Workplace : GIF SUR YVETTE Date of publication : Wednesday, September 7, 2022 Type of Contract : FTC Scientist Contract Period : 12 months (renewable) Expected date of employment : 1 January 2023 (negotiable) Proportion of work : Full time Remuneration : between euro 2889,51 and euro 4082,90 gross monthly depending on experience. Desired level of education : PhD Experience required : 1 to 4 years

Missions The postdoc will work within the framework of the ANR BITTERTOIX project which aims to understand how the evolution of the perception of the bitter taste of toxic substances can influence the evolution of behavioral and detoxification processes. we have identified a few candidate genes through a meticulous screening of genetic and phenotypic variations both within and between species of the *Drosophila melanogaster* subgroup. The mission of the postdoc is to validate using advanced functional genomics tools (eg: CRISPRCas9, single-cell transcriptomics, etc.) the possible pleiotropic effects of identified genes on perception, behavior and/or performance.

Activities - Development of CRISPRCas9 genomic editing tools targeting genes coding for gustatory receptors. - Transgenesis and phenotypic screening of transformants. - Preparation of RNA libraries for single-cell transcriptomic analyses. - Performing statistical analysis. - Dissemination of results in the form of articles and presentation at conferences.

Skills - PhD in ethology, evolutionary biology and/or genetics. - Skills in advanced genetic and/or neurological tools (e.g. editing by CRISPRCas9, transcriptomic analyses, electrophysiological recording, etc.). - Experience working with *Drosophila* or other model insects is preferred but not required. - Good writing skills. - The ability to work in a team.

Work Context The position is funded by the ANR BITTERTOIX project and will be carried out under the direction of Amir Yassin and in collaboration with Frédéric Marion-Poll, both within the Evolution, Genomes, Comportement et Ecologie (EGCE) laboratory in Gif-sur-Yvette, France. The EGCE laboratory has a long tradi-

tion of working on the evolutionary genetics and ethology of *Drosophila* species. This tradition has recently been strengthened by the recruitment of young researchers whose interests range from comparative and population genomics to the developmental and neurological genetics of multiple insect models. EGCE recently joined two other research units to form the Institut Diversité, Ecologie et Evolution du Vivant (IDEEV) in Gif-sur-Yvette. The postdoc will benefit from an intellectually rich environment with state-of-the-art facilities in genome sequencing, gene editing (e.g. CRISPRCas9), insect breeding and experimentation, microscopy and electrophysiology, and bioinformatics analyses.

Constraints and risks Risks associated with working in molecular biology or behind a screen.

How to apply: Only via the CNRS official site: <https://emploi.cnrs.fr/Offres/CDD/UMR9191-AMIYAS-001/Default.aspx?lang=EN> Further inquiries: Please contact Amir Yassin at [amir.yassin\[at\]universite-paris-saclay.fr](mailto:amir.yassin@universite-paris-saclay.fr) for further information.

Amir Yassin <yassin@egce.cnrs-gif.fr>

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IndianaU EvoDevoPlasticity

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 affirma-

tive 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.

“Ledon-Rettig, Cris” <crisledo@indiana.edu>

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INRAE Switzerland fungalPopGenomics

INRAE.WSL.TreeFungiPopulationGenomics

One and a half year post-doctoral research position on the landscape genomics of forest trees and their ectomycorrhizal fungi

This post-doctoral fellowship is available as part of a collaboration between the French National Research Institute for Agriculture, Food, and the Environment (INRAe) Grand Est-Nancy and the Swiss Federal Institute for Forest, Snow and Landscape Research WSL, within the framework of the ?MAGIC? project financed by LABEX-ARBRE and SwissForestLab.

At INRAe, the Ecogenomics of Interaction team seeks to understand the network of genes, proteins, metabolites, and environmental signals that lead to the complex ectomycorrhizal symbiosis in forest trees. The team is investigating the role of mycorrhizal fungi in organic matter degradation and the mechanisms involved in nutrient cycling in forest ecosystems using comparative and functional genomics, biochemistry, bioinformatics, environmental microbiology and ecology approaches.

At WSL, the Research Unit Biodiversity and Conservation Biology studies the diversity of life in its various forms, from genetic diversity to the diversity of species and ecosystems as well as their interactions. The Ecological Genetics group investigates ecological processes in populations of plants, mycorrhizal fungi and animals using genetic methods. It explores how plants and mycorrhizal fungi evolve to adapt to changing environmental conditions, and to what extent mycorrhizal fungi play a role for the stability of forest ecosystems.

In the joint research project, we aim to identify sig-

natures of selection in beech trees to drought periods and enlarge this knowledge to belowground adaptation processes. In particular, we want to know whether the ectomycorrhizal fungi of forest trees are adapted to their local habitat and whether the tree and the fungi form a co-adaptation complex that could confer benefits under adverse environmental conditions.

You will lead analyses of fully sequenced genomes to study population genomics and gene variants involved in drought resistance of beech trees along a water availability gradient in Switzerland. In parallel, you will handle large genomic data of the ubiquitous ectomycorrhizal fungal species, *Cenococcum geophilum*, and perform genotype?environment association analyses to unravel the genomic basis of local adaptation. In collaboration with both partners, you will publish the results in international scientific journals and present them at dedicated conferences. The applied aspects of your findings will be disseminated to practitioners via media dedicated to lay forestry.

You have acquired a PhD in microbiology or plant biology, with a strong background in population genomics and evolutionary biology as well as competences in bioinformatics. You should be acquainted with combined statistical analysis of environmental and genomic data. Experience with plant?microbe interactions and experimental work would be advantageous. You are eager to communicate and collaborate in fluent English with a multicultural and international group and are used to working independently. Moreover, you have a well-structured working attitude and demonstrate a high level of team spirit. You are willing to be hired for the first 12 months at INRAe and the following six months at WSL, with supervision from both institutions. Flexibility is expected in this regard.

Deadline for application is October 31, 2022. The position is open from January 1, 2023, with possible adjustments for the starting date.

To apply, please send your complete application in a single pdf file to Annegret Kohler (annegret.kohler@inrae.fr) and Benjamin Dauphin (benjamin.dauphin@wsl.ch), including (1) a cover letter describing your research interests and background (2 pages max.), (2) a detailed CV (2 pages max.) with full publication list, and (3) the contact details of two referees (1 page max.). INRAe and WSL strive to increase the proportion of women in its employment, therefore women are particularly encouraged to apply for this position. Do not hesitate to contact us if

Benjamin Dauphin

EcologicalGenetics group

Research Unit Biodiversity and Conservation Biology
Swiss Federal Research Institute WSL Zilcherstrasse
111 8903 Birmensdorf Switzerland

E-Mail: benjamin.dauphin@wsl.ch Phone: +41 44 739
2656

Room: Bi MG C 39

Benjamin Dauphin <benjamin.dauphin@wsl.ch>

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

Kew UK ChangesInRiceMicrobeInteractions

Research Associate (Metagenomics)

We are seeking a researcher to join a 5-year UKRI-funded ERC Starting project that will characterize changes in the genomic, metagenomic and chemical diversity of rice from pre-industrial agricultural ecosystems. This project will utilize state-of-art methodology for archaeogenomics, pioneer analyses of nutrients in historical samples, and employ new methods for accurate microbiome characterization. The research associate will lead the genome and microbiome analyses in this project, working both on historical (herbarium) and contemporary samples of rice, with the focus on root and rhizosphere. Additionally, the researcher will be able to join field work in Southeast Asia and oversee field experiments and is expected to tutor internal and external collaborators.

We are seeking candidates holding a PhD/D.Phil degree or equivalent in a relevant research field (e.g. plant biology, environmental sciences, genomics, microbiology, agricultural sciences) and with bioinformatics/computational biology experience, particularly, in comparative genomics and/or metagenomics. Our ideal candidate will be a team player who can work on their own initiative and is enthusiastic about tutoring others. Experience working in Southeast Asia is desirable but not necessary. This position is open to international candidates and we particularly encourage applications from ethnic and gender minority candidates.

Details about responsibilities and expected personal specifications for this job are listed in the job profile document. In your application, please provide examples of your relevant skills, abilities, knowledge and experi-

ence (including publications) that address the criteria in the Person Specification.

Apply here: <https://careers.kew.org/vacancy/-postdoctoral-research-assistant-499214.html> Hours of work Full time Contract Type Fixed Term (FTA) Contract end date 30 - 36 months (to be confirmed) Salary pounds 32,000 - pounds 37,865 per annum (pro rata), depending on skills and experience Location Kew Gardens, Richmond, Hybrid Closing Date 30/09/2022

Rafal Gutaker Research Leader Priority 2, Trait Diversity and Function

Royal Botanic Gardens, Kew, Richmond, Surrey TW9
3AE

r.gutaker@kew.org info@kew.org

Rafal Gutaker <R.Gutaker@kew.org>

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Lyon BioinformaticsPhylogenetics

Further information about the position and details about application are available at: <https://emploi.cnrs.fr/Offres/CDD/UMR5558-NATARB-034/Default.aspx> < <https://emploi.cnrs.fr/Offres/CDD/UMR5558-NATARB-029/Default.aspx?lang=EN> >

You are welcome to submit your application no later than 2022-10-03.

For inquiries please contact: Laurent Gueguen, laurent.gueguen@univ-lyon1.fr, Carina Mugal, carina.mugal@univ-lyon1.fr

Project description: The aim of the postdoc project is to fill the gap between classical phylogenetics and population genetics, and provide a multi-scale approach for the estimation of natural selection that incorporates intra- and inter-specific data.

This work will be based on the theoretical work by Kaj & Mugal (doi: 10.1016/j.tpb.2016.06.003), which provides analytical solutions for the influence of polymorphism on the estimation of selection in classical phylogenetic approaches. The novel approach will implement the theory in order to compute the transition probabilities between polymorphic states and fixations among species. For integration of the population genetics theory into a phylogenetic setting, the work will also rely on models of speciation dynamics (starting with the simplest mod-

els of speciation, so-called isolation-without-migration models).

The novel approach will be implemented in Bio++ libraries, which are a set of C++ libraries dedicated to bioinformatics, phylogenetics, and molecular evolution.

Finally, building on these developments, the postdoc will investigate the evolutionary dynamics of bat genes that lie at the core of the BATantiVIR project.

Skills: The candidate has a good knowledge of molecular evolution, and a solid basis in mathematical modelling. She/he is familiar with bioinformatics, population genetics and phylogenetic concepts. Last, she/he is autonomous in C++ programming.

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

MaxPlanck Evolbio Behavioral Economics

We are looking for a motivated researcher to join our cross-institutional research group at the Max Planck Institute for Evolutionary Biology (Germany) and the University of Exeter (United Kingdom). We use game theory to study questions around cooperation and social preferences: What makes people cooperate and help others? How can we encourage more altruism towards future generations? And what real-world conditions, such as changing environments, extreme inequality or dealing with multiple interaction partners, challenge our assumptions of cooperation? If these questions interest you, please consider applying for:

Postdoctoral Fellow Experimental Economics/Behavioural Economics

This exciting position is for at least 2 years, with a start date in early 2023 (this is negotiable), under the supervision of Dr Christian Hilbe (Group Leader of the Max Planck Research Group on the Dynamics of Social Behavior) and Professor Oliver Hauser (Associate Professor of Economics, University of Exeter). This position is

generously funded by an ERC Starting Grant and offers a number of benefits. The salary ranges between 58,000 and 63,000 EUR according to your qualifications and professional experience in accordance with the collective agreement for the public sector (TVöD Bund). The successful candidate will receive their own research budget for their independent research. There is no teaching requirement, allowing full focus on research.

Working environment The successful candidate will be able to take advantage of multiple institutions: The position is jointly based at both the Max Planck Institute for Evolutionary Biology in Plön (Germany) and the Department of Economics at the University of Exeter (United Kingdom). We are happy to discuss with potential candidates how they would spend their time at these institutions to take full advantage of the research expertise in both locations. (The extent of time spent at each institution as well as flexible/remote working arrangements vary depending on the nationality of the candidate; we are happy to discuss the available options on an individual basis.) Furthermore, the successful candidate will also be able (and receive funding) to visit, present and spend time at Harvard University, working with close affiliates and collaborators of Dr Hilbe and Professor Hauser's research programme. The successful candidate will join our interdisciplinary research groups, comprising of economists, mathematicians, psychologists, computer scientists, and evolutionary biologists. We use tools from game theory, ranging from analytical models and computer simulations to behavioural laboratory and field experiments. We aim to publish our findings in general-audience journals (including Nature, PNAS, Nature Human Behaviour, and Science Advances) and top journals in economics, psychology and evolutionary biology.

Applications and informal interest We welcome applications from candidates with PhD in any discipline (e.g. economics, psychology, computer science, mathematics, physics). Applicants should have a strong quantitative background. Ideally, they also have some experience in designing and running economic experiments (e.g. Otree, Qualtrics). However, even if you do not have such experience, we welcome applicants who are fast learners and who have strong programming and/or statistical skills (e.g. Python, R, Stata). Dr Hilbe and Professor Hauser welcome informal enquiries about this position and encourage candidates who are uncertain whether they would be a good fit for the position (especially if they are from a traditionally underrepresented group in academia) to submit an application or get in touch to learn more about this opportunity: hilbe@evolbio.mpg.de and o.hauser@exeter.ac.uk Once you are ready to submit your application, please send an

email with the subject line “Postdoc Application 2022” with your CV and the contact details of two references to us: hilbe@evolbio.mpg.de, o.hauser@exeter.ac.uk and bewerbung@evolbio.mpg.de. The application deadline is Sunday, October 16, 2022.

The Max Planck Society and the University of Exeter strive for gender and diversity equality. We welcome applications from all backgrounds. The Max Planck Society and the University of Exeter are committed to employing more disabled individuals and especially encourages them to apply. The Max Planck Society and the University of Exeter seek to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Contact: Dr. Christian Hilbe Research Group Dynamics of Social Behavior Max Planck Institute for Evolutionary Biology, Plön, Germany Website: web.evolbio.mpg.de/~hilbe Email: hilbe@evolbio.mpg.de

Christian Hilbe <hilbe@evolbio.mpg.de>

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MichiganStateU ConservationGenomics

Postdoctoral opportunity studying conservation biology and population genomics of salmonids

The Meek Lab at Michigan State University is looking for a highly motivated postdoctoral scholar to apply population genomic study to solve problems in the conservation of fish species. The Meek lab uses field studies and next-generation sequencing to address fundamental ecological questions that are directly relevant to the conservation and management of threatened species. We study biodiversity at the level of genotype up to phenotype. The focus of this position is listed below.

Conservation genomics of Central Valley Chinook salmon The Meek lab has a long-running program aimed at understanding life history trait variation, population health and sustainability, and conservation biology of Central Valley Chinook salmon. Check out the website (meeklab.com) to see examples of these projects. We have an invaluable 30+ year database of trait data combined with genomic data to understand outmigration patterns in juvenile Chinook salmon. The post-doc will have the ability to develop their own questions using this

database and add to it with new data collection. This position can be in East Lansing or primarily remote, but may have requirements for spending weeks in the lab to conduct lab work. The work in the Meek lab is done in very close collaboration with our state and federal agency partners to ensure usefulness and impact, therefore in addition to the publication of research, the post-doc will have opportunity to develop their skills in outreach, collaboration, and agency partner engagement.

Please look at our website (meeklab.com) to get a more complete picture of the work we do. We are a very interactive lab and are looking for excellent scientists, who care about conservation, and are good collaborators. The successful candidates can expect to publish peer-reviewed manuscripts based on the research described here. The Meek lab strives to be a safe space and support diversity in STEM.

The initial hire is for one year. The positions will be based in the Department of Integrative Biology at Michigan State University. Start date is negotiable and position is open until filled.

Qualifications Applicants should have a PhD in ecology, evolution, genetics, bioinformatics, or related fields. We are looking for a creative and talented scientist with a good publication record and excellent organizational and communication skills who are passionate about conservation. Experience working with genomic data is essential and familiarity with one or several programming languages is preferred.

How to apply Interested candidates should apply through the MSU Applicant Page at <https://careers.msu.edu/en-us/job/511933/research-associatefixed-term>. Please feel free to email (mh-meek@msu.edu), with “Post-doctoral position” in the subject line, before applying to ask questions. Review of applications will begin on September 19. Required application material:

- 1) Brief cover letter describing research interests and motivation
- 2) CV
- 3) Names and email addresses for 3 references
- 4) 2-3 published papers or manuscripts in preparation

Mariah Meek, PhD Assistant Professor Department of Integrative Biology Ecology, Evolution, and Behavior Program Michigan State University East Lansing, MI meeklab.com iCatch.app < <https://www.icatch.app/> > She/her/hers

Vice President, Society for Conservation Biology Conservation Genetics Working Group < <https://conbio.org/groups/working-groups/conservation-genetics-working-group> >

Member, IUCN North American Genetics Specialist Group < <https://www.cgsg.uni-freiburg.de/> >

Editorial Board, Conservation Science and Practice < <https://conbio.onlinelibrary.wiley.com/journal/25784854> >

“Meek, Mariah” <mhmeek@msu.edu>

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MichiganStateU EvolutionaryGenomics

NSF-funded postdoctoral position in evolutionary genetics and genomics available immediately in the Conner lab (<https://jeffreykconner.com/>) at Michigan State University’s Kellogg Biological Station (<https://www.kbs.msu.edu/>). The lab studies mechanisms of adaptation by integrating genetics, genomics, ecology and evolution in the field, greenhouse, and growth chamber, using wild radish and Arabidopsis as model organisms. This project addresses the interaction of selection, pleiotropy, and drift in phenotypic evolution using parallel latitudinal and altitudinal clines in trait loss in Arabidopsis. The postdoc would lead this work, which integrates extensive field work using near-isogenic lines and phenotypic manipulation in Italy, Spain, and Sweden, genomic tests of selection vs. drift, growth chamber common gardens, and lab identification of genes causing trait loss. Substantial publication and grant-writing opportunities available. Experience with, or a strong interest in, bioinformatics, molecular genetics, and field research necessary. Four years of funding available. Contact Jeff Conner (@JeffreyKConner; connerj@msu.edu) with questions; apply at <https://careers.msu.edu/en-us/job/512117/research-associatefixed-term> The Conner Lab, Kellogg Biological Station, and Michigan State University are all committed to fostering a diverse, equitable, and inclusive environment.

“Conner, Jeffrey” <connerj@msu.edu>

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MichiganStateU PlantEvoGen

The Josephs Lab at Michigan State University is hiring a postdoctoral researcher to study plant evolutionary genetics and genotype-by-environment interactions. The specifics of the research project are flexible but could include experimental plant work in the growth chamber or field, genomics or transcriptomics analysis, and/or evolutionary theory. The lab also has a few datasets on hand that could be analyzed and published by the postdoc. See more about current lab research at <http://josephslab.github.io>. Successful candidates will have demonstrated expertise in one or more of the following areas, although expertise in all areas is not expected: evolutionary genetics, population genetics, quantitative genetics, programming (in R, python, or other languages), statistics, and/or genomic data analysis. The initial contract is for one year, but at least three years of funding are available.

MSU is a fantastic place to be a postdoc, with a favorable cost-of-living: salary ratio, and many other labs engaged in exciting plant genomics and evolutionary genetics research. The Josephs lab is committed to increasing diversity in the scientific community and I strongly encourage applications from candidates from historically-excluded groups.

Please email any questions to josep993@msu.edu. Start date is flexible and I will review applications on a rolling basis.

Apply here: <https://careers.msu.edu/en-us/job/511930/research-associatefixed-term> Emily Josephs Assistant Professor Dept of Plant Biology Michigan State University josephslab.github.io

“Josephs, Emily” <josep993@msu.edu>

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MNHN Paris Computational Phylogenetics

Postdoc: Computational and Machine Learning-based Methods in Phylogenetics

Muséum National d'Histoire Naturelle, Paris - France
Olivier Gascuel - olivier dot gascuel at mnhn dot fr
<https://isyeb.mnhn.fr/fr/annuaire/olivier-gascuel-7496> <https://www.academie-sciences.fr/fr/Liste-des-membres-de-l-Academie-des-sciences/-/G/olivier-gascuel.html> In the context of the PRAIRIE program (<https://prairie-institute.fr/>), the postdoctoral fellow will work at the intersection of machine learning, genomics and evolution. Recent publications have shown the potential of machine learning methods and advanced computational techniques to tackle key issues in phylogenetics and phylogenomics. The research framework spans a wide range of topics, in particular: statistical modeling of evolutionary processes, selection/adequacy of evolutionary models, non-parametric approaches, and phylodynamics.

The postdoc fellow will work on one of the following subjects: * Machine learning-based non-parametric modeling of evolutionary processes (e.g. substitution, indels, virus spread, species diversification) * Machine learning and computational statistics methods to compare and select evolutionary models * Algorithm design and implementation for large-scale phylogenetics

The applicants are welcome to propose variants along these lines, for example combining modeling and model selection. Example of recent publications, which could serve as a basis for developing new research:

Deep learning from phylogenies to uncover the epidemiological dynamics of outbreaks J Voznica, A Zhukova, V Boskova, E Saulnier, F Lemoine, M Moslonka-Lefebvre, O Gascuel *Nature communications* 13 (1), 1-14, 2022.

Using machine learning and big data to explore the drug resistance landscape in HIV L Blassel, A Tostevin, CJ Villabona-Arenas, M Peeters, S Hué, O Gascuel *PLoS computational biology* 17 (8), e1008873, 2021

A Darwinian uncertainty principle O Gascuel, M Steel *Systematic Biology* 69 (3), 521-529, 2020

A fast likelihood method to reconstruct and visualize ancestral scenarios SA Ishikawa, A Zhukova, W Iwasaki, O Gascuel *Molecular biology and evolution* 36 (9), 2069-

2085

Renewing Felsenstein's phylogenetic bootstrap in the era of big data F Lemoine, JB Domelevo Entfellner, E Wilkinson, D Correia, M Dávila Felipe, Tulio De Oliveira, Olivier Gascuel *Nature* 556 (7702), 452-456

Please send a motivation letter (1-2 pages) and a CV to: olivier dot gascuel at mnhn dot fr

Olivier GASCUEL <olivier.gascuel@mnhn.fr>

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NHGRI-NIH Bethesda Bioinformatics Comparative Genomics

Computational and Statistical Genomics Branch National Human Genome Research Institute National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Comparative Genomics

A postdoctoral training position is currently available in the Computational and Statistical Genomics Branch (CSGB) of the National Human Genome Research Institute (NHGRI). The position is in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models can be used to convey critical insights into human disease research, in line with the NIH Intramural Research Program's renewed emphasis on developing new animal models for the study of basic biology.

With this translational context in mind, Dr. Baxevanis' group is currently leading international efforts to sequence two cnidarian species: *Hydractinia* and *Podocoryna*. The regenerative abilities of these colonial hydrozoans make them excellent models for the study of key questions related to pluripotency, allorecognition, and stem cell biology, work that will be significantly advanced by the availability of high-quality whole-genome sequencing data from these organisms. The successful applicant will have the opportunity to develop and apply bioinformatic approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families and biological pathways that

have putative roles in disease causation.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in comparative genomics or evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as a Top 500 high-performance computing resource available through NIH's Center for Information Technology.

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential references to Dr. Baxevanis at andy@mail.nih.gov. Postdoctoral traineeships are not available to scientists who have more than five years of relevant research experience since the receipt of their most recent doctoral degree.

For more information, please visit <https://irp.nih.gov/-pi/andy-baxevanis>. The NIH is dedicated to building a diverse community in its training and employment programs.

“Baxevanis, Andy (NIH/NHGRI) [E]”
<andy@mail.nih.gov>

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NHM Luxembourg LandscapeGenetics

An 18-month postdoc position focusing on insect population genetics is available in the Zoology Department of the National Natural History Museum, Luxembourg (MNHNL). The postdoc will work with Alain Frantz (PI) and Julian Wittische (previous holder of the post-doc), and is funded by the Luxembourg Research Fund.

PROJECT DESCRIPTION The overall objective of the ongoing study is to better understand the connectivity of typical Luxembourg landscapes from the viewpoint of pollinators. We aim to understand whether urbanization has an impact on pollinator dispersal and, if there is sufficient landscape resistance to create isolation, which landscape features facilitate or hinder gene flow. We will use genetic data to make inferences about genetic structure and effective dispersal. During the remainder of the project, we want to apply this approach to two target species in one large area with significant urbanization (Southwest of Luxembourg).

RESPONSIBILITIES The postdoc will be responsible for finishing the project, which started in 2021, and will officially end in March 2024 (the position may be extended for a few more months). Genetic data for two species (SNPs for *Andrena cineraria*, microsatellites for *Bombylius major*) are currently being created and the postdoc will be responsible for performing the population and landscape genetic analyses. The postdoc is expected to disseminate the results of the analyses for those species through presentations and scientific publications.

REQUIREMENTS We seek candidates with an in-depth knowledge of population and landscape genetics. Interest in entomology and pollinator ecology would be an asset. The candidates must have experience in using R, STRUCTURE and other relevant software. Previous experience with advanced resistance modelling tools (e.g., ResistanceGA, SAMC) is a plus.

WHAT WE OFFER We offer an 18-month contract with a competitive salary. The position is based in the Zoology research group at the MNHNL in Luxembourg City. The group is well-funded and ambitious and the team composition very international. As a postdoc you will benefit from easy access to your supervisors, but are expected to take on a leadership role relative to the

more junior members of the team.

APPLYING If interested, send a cover letter and an academic CV to alain.frantz@mnhn.lu, alongside the names and contact information of two references. The same email address can be used for informal inquiries. Starting date in November or December 2022. We will consider applications until the position is filled.

FRANTZ Alain <Alain.FRANTZ@mnhn.lu>

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OmahaZoo LemurConservationGenetics

Job title: Postdoctoral Scientist Conservation Genetics

Apply here: <https://www.paycomonline.net/v4/ats/-web.php/jobs/ViewJobDetails?job=37358&clientkey=-77B425C21C6E28F6E3B0849B4A14F1B5> Hours:

Full-time. This position will be part of an on-going team of rotating postdoc fellows. This position is expected to begin in early-2023. Initial appointment will be for two years, with the possibility to extend to three years.

Please submit your CV with the contact information for 3 professional references, a letter describing your interests and goals, and copies of a few publications.

Learn more at: <https://madagascarpartnership.org/>
Duties and Responsibilities (include but not limited to):

- * Be proficient in the construction genomic libraries and in solution hybridization methodologies for high throughput sequencing as well as all relevant analysis of large datasets, and manage next-generation sequence workflows. * The researchers will be responsible for development, implementation, and support of software applications related to variant detection and interpretation from high-throughput experiments involving multiple species of lemurs, tortoises, and taxa from Madagascar.
- * Assembly of whole genomes is in-progress but will require additional analysis pertinent to specific research projects. * Data on a variety from a variety of species has already been generated, thus candidates will be able to quickly start analysis and manuscript preparation.
- * Will work closely with two full-time technicians to manage NGS lab work, as well as with a full-time bioinformatician. * While in Omaha the researchers will work with a variety of Malagasy graduate students and

is expected to assist with the progression of a variety of projects and assist with completion of their degrees and peer-reviewed manuscripts. * Travel to Madagascar to support the field programs of Omaha Zoo and the Madagascar Biodiversity Partnership to Madagascar is required for a single five-week interval once a year.

Qualifications, Knowledge, Skills, and Abilities:

- * Must hold a PhD in bioinformatics, computer science, molecular genomics or related field and have more than one year of experience in high-throughput genome sequence analysis. * Experienced in software related to next generation sequencing data and able to manipulate genomic data for phylogenetics and phylogeography. * Candidate should have 3+ years of experience in molecular biology, genetics, or bioinformatics. * Proficiency in programming (perl or python) and bash scripting using Linux operating systems is required. * Must be familiar with bioinformatics tools, should be able to implement complex computational pipelines, incorporate genomics databases and have extensive and creditable laboratory experience with constructing genomic libraries. * Must also be able to jump between projects, based on the needs of the research group. * Our groups focus is large-scale sequencing for phylogenetics, phylogeography and evolutionary studies of lemurs (specifically the genera Daubentonia, Eulemur, Lepilemur, Microcebus, Propithecus, and Varecia) and tortoises (genera Astrochelys and Pyxis) from Madagascar. Thus, previous experience in genome assemblies, annotation, and analysis of a variety of next generation sequencing (NGS) pipelines is preferable. * Should be independent, highly motivated, productive, and able to work effectively in a team with members from a variety of diverse backgrounds and have outstanding written and verbal communication skills. * The successful applicant must be interested in interdisciplinary science and field research and have a solid publication record that illustrates ability to conduct novel, independent research. * Should be highly motivated, organized, independent, and have extensive experience with molecular genomics and bioinformatics, and be able to efficiently write and revise manuscripts.

vicki.villanova@omahazoo.com

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PennsylvaniaStateU PopulationGenetics

An NIH-funded Postdoctoral Scholar position is available in the Szpiech Lab (<http://www.szpiech.com>) in the Department of Biology (<https://science.psu.edu/-bio>) at The Pennsylvania State University (<https://www.psu.edu/>) to study population genetics and complex trait evolution. Our work combines computational and statistical approaches, with a strong emphasis on methods development, simulation, and empirical data analysis.

The position requires a completed Ph.D. preferred in population genetics, evolutionary biology, statistics, applied mathematics, or computer science. The position is ideal for someone with training in statistical, theoretical, or computational population genetics, and/or someone with a strong background in evolution, mathematical biology, statistics, or computer science, and an interest in population genetics. Programming experience, especially with Python and/or C/C++, is a plus.

Applications must be submitted electronically and include a cover letter and a CV (including names of referees). For further information please email Dr. Szpiech at szpiech@psu.edu. Review of applications will begin immediately and continue until the position is filled.

[https://www.myworkday.com/psu/d/inst/15\\$392530/-9925\\$96766.html](https://www.myworkday.com/psu/d/inst/15$392530/-9925$96766.html) This is a fixed-term appointment funded for one year from date of hire, with the possibility of renewal based upon performance and available funding.

More information about Penn State and resources for Postdoctoral scholars can be found on the following website: <https://www.research.psu.edu/opa>. Standard University background checks will be required.

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, and inclusion in all of its forms. We embrace individual uniqueness, foster a culture of inclusive excellence that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity, and engage all individuals to help them thrive. We value inclusive excellence as a core strength and an essential element of our public service mission.

Zachary A. Szpiech, PhD Assistant Professor Department of Biology Penn State University

“Szpiech, Zachary A” <zps5164@psu.edu>

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

Porto Chicago Brno DesertEvolutionPhylogenomics

Project title: Phylogenomics and evolution of speciose desert rodents (genera: Gerbillus)

We are looking for an enthusiastic student / researcher to join project and expeditions to the Sahara to collect data and accomplish research / PhD thesis. The selected candidate will apply with the team for an independent research position / PhD scholarship. Several financing opportunities exist within the supervisor team institutions (see below).

Ongoing climate change, and extreme weather events, raised concern for species survival throughout the world. Some organisms have long coped with those problems, by adapting to new conditions and seeking shelter in suitable patchy areas. Therefore a promising approach to predict the future of the species is to first reconstruct its evolutionary past. North Africa has been exposed to frequent, and repeated, climatic oscillations. Therefore, the Sahara desert can serve as a laboratory to study how species respond to climate change and extreme conditions. We study speciose Gerbillus rodents (estimated > 50 species) that inhabit arid habitats and deserts. Due to remoteness of the area evolutionary history and ecology of Saharan inhabitants has been rarely studied. Our previous research showed high cryptic diversity within Gerbillus rodents, and suggested ecological processes involved in diversification.

With field work in remote and distinct geographic locations, expected to host endemic and rare lineages and species, and sequencing of historical museum samples, this project aims in reconstructing phylogenetic history (phylogenomics) to study biogeography and mechanisms of diversification in harsh and fluctuating desert conditions.

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

Team:

Zbyszek Boratyński (boratyns@cibio.up.pt, <https://boratyns.wixsite.com/zbyszek>), BIOPOLIS,

CIBIO/InBio, Research Center in Biodiversity & Genetic Resources, University of Porto, Portugal

Molly McDonough (mollymcdonough@gmail.com, <https://www.researchgate.net/profile/Molly-Mcdonough-2>), Chicago State University, Field Museum of Natural History and National Museum of Natural History, Smithsonian Institution, USA

Josef Bryja (bryja@ivb.cz, <https://www.ivb.cz/en/person/josef-bryja/>), Institute of Vertebrate Biology, Czech Academy of Sciences, Department of Botany and Zoology, Faculty of Science, Masaryk University, Czech Republic

Financing opportunities: Fellowship / contract trough-out FCT foundation: <https://www.fct.pt/> PhD scholarship at the Masaryk University (Brno, Czech Republic): <https://www.muni.cz/en> PhD Biodiv studentship: <https://www.biodiv.pt/en/> References:

Bryja et al. 2022. Rodents of the Afar Triangle (Ethiopia): geographical isolation causes high level of endemism. *Biodivers Conserv*, 10.1007/s10531-022-02354-4

Boratyński et al. 2017. Repeated evolution of camouflage in speciose desert rodents. *Sci Rep*, 10.1038/s41598-017-03444-y

Ndiaye et al. 2016. Evolutionary systematics and biogeography of the arid habitat-adapted rodent genus *Gerbillus* (Rodentia, Muridae): a mostly Pliocene-Pleistocene African history. *J Zool Syst Evol*, 10.1111/jzs.12143

Ndiaye et al. 2016. Taxonomic hypotheses regarding the genus *Gerbillus* (Rodentia, Muridae, Gerbillinae) based on molecular analyses of museum specimens. *ZooKeys*, 10.3897/zookeys.566.7317

Zbyszek Boratyński <boratyns@gmail.com>

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PrincetonU HostParasiteEvoEco

Postdoctoral Research Associate Position in the Evolutionary Ecology of Host-Parasite Interactions

The Department of Ecology and Evolutionary Biology invites applications for a Postdoctoral Research Associate or more senior research position to work with Professor

Andrea L. Graham, for an NSF-funded project in collaboration with Professor Clay Cressler of the University of Nebraska-Lincoln. Graham Group research interests include immune and parasite dynamics within hosts, parasite transmission between hosts, and, more generally, the evolutionary ecology of immunity, infection and disease. Members of the group collect data both in the lab and in the field, and frequently use mathematics to investigate processes that determine the strength and efficacy of immune responses. The Cressler Lab develops novel mathematical models that link within-host and between-host processes to understand the dynamics and evolution of infectious diseases.

This project (Ecology of expulsion: Within-host dynamics driving nematode infection) focuses on mouse-nematode-microbe interactions and is designed to test the hypothesis that feedback loops between induced immune responses and parasite growth ultimately determine the duration of nematode infection and therefore the fitness impacts for both hosts and parasites. Our preliminary mathematical modelling suggests that these feedbacks lead to immunological Allee effects, such that subtle differences in dose, initial T-helper cell bias, or induction rate can lead to either an acute infection that is rapidly cleared or else to chronic infection.

The researcher will be primarily responsible for generating data to test these predictions, using dose-response and rewilding experiments with multiple readouts. Responsibilities will include: planning and execution of experiments, including sampling; development and execution of immunoassays; molecular and microscopic methods to identify and quantify symbionts; cell culture; optimization and use of flow cytometry; parameterization of mathematical models; and data analysis.

The researcher will be encouraged to lead the intellectual development of the project according to their own vision and skillset, in consultation with the project team. Depending upon interests of the person recruited, duties may also include supervision of undergraduate projects; curation of sample collections; and participation in the Broader Impacts aspect of this project, which will use theatre to bring immunology to a wide public.

The appointment is for one year initially, with the possibility of renewal of an additional year, based on satisfactory performance. Salary is competitive and commensurate with experience, and benefits are included. This position is available immediately and will be open until filled.

Essential qualifications:

- A Ph.D. in an appropriate field of science (e.g., immunology, parasitology, ecology, evolutionary biology) -

Experience in animal handling, optimizing immunoassays or sequencing pipelines - Skills in at least one of the following: fieldwork, mathematical analysis, cell biology - Experience supervising other laboratory personnel

Ability to work independently as well as to lead a team, attention to detail in laboratory work, and meticulous record-keeping are paramount. Strong organizational skills and excellent communication skills are also essential. Finally, the job will require the ability to review agreed goals, to analyze processes necessary to achieve those goals, and to develop techniques and systems to meet those goals.

Preferred qualifications:

Experience with live-trapping of animals in the field, statistical analysis, or animal breeding is preferred, as is training in animal physiology or veterinary medicine.

How to apply:

Applicants should apply at <https://www.princeton.edu/-/acad-positions/position/27521> online and include a curriculum vitae, a one-page statement of research interests and experience, and a cover letter that includes names and contact information of three references.

This position is subject to the University's background check policy.

Informal enquiries are welcome. Evaluation of applications will begin in early October.

Andrea L. Graham Professor of Ecology & Evolutionary Biology Princeton University Princeton, NJ 08544 USA

Tel: (+1) 609-258-6703 E-mail: algraham@princeton.edu Graham Group: <http://algraham.princeton.edu/> Twitter: @Grahammunology

"Andrea L. Graham" <algraham@princeton.edu>

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RoslinInst UEdinburgh DogGenomics

Postdoctoral position in Genomics at the Roslin Institute (University of Edinburgh, UK)

Project: Development of a sequencing and genotyping programme for service dogs Fixed term for 2 years, starting from November/December 2022

Deadline for applications: 07 October 2022. Interviews

will be held in October/November 2022.

Summary We are looking for a highly motivated post-doctoral researcher to join an exciting collaboration. The postholder will join The University of Edinburgh's Roslin Institute, the UK's foremost centre of animal and agritech sciences. Using whole-genome sequence-derived data and simulations, the postholder will help design a cutting-edge sequencing and genotyping programme that will be implemented by Guide Dogs for the Blind, a non-profit organisation that is a major advocate and breeder of guide dogs for the vision impaired. The project will involve use of computer simulation, low-coverage whole genome sequencing, haplotype phasing, and genotype imputation to help design this sequencing and genotyping programme. The outcomes of the project will contribute to longer-term goals of increasing the graduation rate of service dogs, as well as extending the working lifespan of these dogs through genomic selection.

Qualifications The ideal candidate will have a Ph.D. in quantitative genetics, bioinformatics, statistics, or a related discipline and skills in programming/simulation and processing of large genomic datasets.

Location Located five miles south of the Scottish capital city, within the countryside of the Easter Bush Research Campus, the postholder will be immersed in an environment of cutting-edge animal sciences that spans quantitative and population genetics, genomics, bioinformatics, biotechnology, epidemiology, infectious disease, welfare, and breeding programme research. The campus is also home to the Royal (Dick) School of Veterinary Studies, Global Academy of Agriculture and Food Security, and numerous agri- and bio-tech companies.

Application procedure Informal enquires can be made to Gregor Gorjanc (<mailto:Gregor.Gorjanc@roslin.ed.ac.uk>), Pam Wiener (<mailto:Pam.Wiener@roslin.ed.ac.uk>), Jeff Schoenebeck (<mailto:jeff.schoenebeck@roslin.ed.ac.uk>), or Dylan Clements (<mailto:Dylan.Clements@roslin.ed.ac.uk>), while formal applications should be submitted through The University of Edinburgh website. Further details and the link to apply can be found at https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1001/job/5225

The University is able to sponsor the employment of international workers for this post. $\frac{1}{2}$ If successful, an international applicant requiring sponsorship to work in the UK will need to satisfy the UK Home Office's English Language requirements and apply for and secure a Skilled Worker Visa.

The post is funded for 2 years, with the possibility of extension.

Pam Wiener The Roslin Institute and Royal (Dick) School of Veterinary Studies University of Edinburgh Easter Bush, Midlothian EH25 9RG United Kingdom

phone: 44 (0) 131 651 9248 email: pam.wiener@roslin.ed.ac.uk
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Pam Wiener <pam.wiener@roslin.ed.ac.uk>

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SangerInst Speciation

We are looking for a postdoctoral Fellow interested in the role of chromosomal rearrangements in speciation to join the Meier Group for 3 years. Chromosomal rearrangements are thought to have the potential to contribute to speciation as they can cause hybrid sterility and suppress recombination, potentially linking co-adapted genes. There is old-standing theory on this, but testing the hypotheses has been challenging due to the difficulty of identifying chromosomal rearrangements. However, now it has become possible to assemble genomes at a large scale at institutions such as the Sanger Institute. Ithomiini butterflies are an ideal study system to test long-standing hypotheses on the causes and effects of chromosomal rearrangements as this species-rich tribe of South American butterflies shows very rapid chromosomal evolution (Brown et al., 2004, *Hereditas*). While the vast majority of butterflies kept the ancestral number of 31 chromosomes, ithomiini species show large variation in chromosome number, ranging from 5 to 120 chromosomes. In the two very closely related species we have already analysed, we find that their chromosomal differences are not due to simple fusions or fissions, but involve complex rearrangements (Gauthier et al., in review). Ithomiini butterflies also show within-population variation in karyotypes (McClure et al., 2018, *Cytogenetic and Genome Research*). Some genera have radiated rapidly into multiple species, whereas others show much lower speciation rates. Ithomiini butterflies are thus ideal to test predictions on interactions between chromosomal evolution and speciation.

In collaboration with researchers in Ecuador, Colombia, Brazil, France and the UK, we are currently collecting butterflies to assemble about 200 reference genomes of representatives of all ithomiini lineages. Our team members and collaborators are currently identifying genes under selection, such as those contributing to warning colour patterns in these mimetic butterflies. You will have a background in genomics to use the genome assemblies to answer questions on chromosome evolution and speciation. You will have a collaborative mindset and good team work skills. Essential Skills:

- PhD in evolutionary genomics, population genetics or other relevant area
- Demonstrated analytical and problem solving skills
- Demonstrated team work skills and collaborative approach to research
- Clear written and oral communication skills
- Experience in processing large genomic datasets on parallel computing clusters
- Demonstrates Inclusivity and respect for all.

Application Process:

Please apply with your CV and a Cover Letter outlining why you are interested in this position and how you meet the criteria set out above and in the job description on our job site <https://jobs.sanger.ac.uk/-vacancy/postdoctoral-fellow-chromosomal-speciation-498462.html> Many thanks, Michelle

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

Michelle Craske <mc29@sanger.ac.uk>

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SaoPauloStateU Diversity

One post-doctoral position for 12 months is available to work at the Molecular Evolution Laboratory, Institute of Biosciences, Humanities and Exact Sciences (IBILCE), São Paulo State University (UNESP) (São José do Rio Preto, SP, Brazil), in Evolution of Diversity and Adaptation in Drosophilids: Genomic, Transcriptional and Ecological Approaches. The candidate should have experience in molecular biology and knowledge of bioinformatics tools, functional annotation of genes and transposable elements, as well as the analysis of transcriptome data. The selected candidate will receive

a Post-Doctoral fellowship from the $\text{Si}\frac{1}{2}$ o Paulo State University in the amount of 6,000.00 reais monthly and a research contingency fund of 28.000,00 reais which should be spent in items directly related to the research activity.

The subscription deadline is September, 15th 2022, 06 pm (BRT or UTC-3). Contact only by the email *claudia.carareto@unesp.br*.

Requirements for the applicants

- Have the PdD title recognized by the MEC (Brazilian Ministry of Education and Culture);

-Have an updated Curriculum Lattes (<https://lattes.cnpq.br/>)

-Not having an employment relationship and respect the workload of 40 hours per week attendance and exclusive dedication to the Postdoctoral.

* Applicants of any nationality are welcome as long as they are fluent in English and meet the above requirements.

More details in:

file:///C:/Users/Usuario/Downloads/edital-prope-pd-13-2022-retificado-23-08.pdf

item III. Projetos individuais

Claudia Marcia Carareto, PhD Full Professor in Evolution Biological Sciences Department $\text{Si}\frac{1}{2}$ o Paulo State University (UNESP) $\text{Si}\frac{1}{2}$ o Josi $\frac{1}{2}$ do Rio Preto, SP, Brasil

Claudia Marcia Aparecida Carareto
<claudia.carareto@unesp.br>

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SarsCentre Bergen NeuralEvolution

<https://www.jobbnorge.no/en/available-jobs/job/-232571/postdoctoral-research-fellow-position-tracking-the-deep-evolutionary-origins-of-neurons-ctenophore-connectome> Postdoctoral Research Fellow position

There is a vacancy for a postdoctoral research fellow position at the Sars International Centre for Marine Molecular Biology (www.sars.no) in the research group headed by Dr. Pawel Burkhardt. The position is for a period of 3 years and is funded by an ERC consolidator

grant (ORIGINEURO). The Sars Centre belongs to the University of Bergen and is partner of the European Molecular Biology Laboratory (EMBL) (www.embl.de). The place of work will be at the Sars Centre. The preferred but negotiable starting date is January 2023.

About the project/work tasks:

The Burkhardt group combines comparative biological systems in the laboratory to understand when and how first synapses, neurons and nervous systems evolved. The group is particularly interested in studying the nervous system of ctenophores. Ctenophores - strong candidates for being the sister-group to all other animals - are beautiful, but still mysterious marine animals. Given their phylogenetic position characterizing the nervous system of ctenophores promises to reveal fundamental insights into the evolutionary origin of neurons. We are looking for a highly self-motivated and enthusiastic Postdoctoral Research Fellow with interests in evolutionary biology, neurobiology and electron microscopy. The project will focus on the ultrastructural characterization of the nervous system of an entire ctenophore. The successful candidate will undertake research using 3D electron microscopy and CLEM to reveal ctenophore connectome(s) and will work in close association with the group leader and other lab members with the aim to contribute to the further development of the project in line with her/his interests.

Qualifications and personal qualities:

The applicant must hold a Norwegian PhD or an equivalent degree in fields related to the project and must have submitted his/her doctoral thesis for assessment prior to the application deadline. It is a condition of employment that the PhD has been awarded. Strong motivation/enthusiasm to perform research at an internationally competitive level. Practical experience in image segmentation and 3D reconstructions of serial EM sections is required. Practical experience with serial sectioning and electron microscopy techniques (TEM, SBFSEM) is highly desirable. Practical experience in situ hybridization (ISH), immunofluorescence (IF) microscopy and correlative light and electron microscopy (CLEM) is highly desirable. Specific experience in working with marine invertebrates (ctenophores, cnidarians, sponges) is beneficial, but not essential. The ability to work both independently and to cooperate with others in a structured manner is essential. Proficiency in both written and oral English.

About the position of postdoctoral research fellow:

The position of postdoctoral research fellow is a fixed-term appointment with the primary objective of qualifying the appointee for work in top academic positions.

The fixed-term period for this position is 3 years. Individuals may not be hired for more than one fixed-term period as a postdoctoral research fellow at the same institution.

Upon appointment, applicants must submit a project proposal for the qualifying work including a work schedule. It is a requirement that the project is completed in the course of the period of employment.

We can offer:

A professional, challenging and international working environment Well-equipped, modern laboratories and facilities Salary as Postdoctoral Research Fellow (code 1352) according to the state salary scale upon appointment. This currently constitutes of a gross annual salary of NOK 573.900. Further promotions are made according to length of service. For particularly highly qualified applicants, a higher salary may be considered Enrolment in the Norwegian Public Service Pension Fund Good welfare benefits

Your application must include:

A cover letter of the applicant's research interests and motivation for applying for the position The names and contact information 2-3 reference persons. One of these must be the the main advisor from the PhD programme CV Transcripts and diplomas and official confirmation that the doctoral thesis has been submitted Relevant certificates/references List of publications or other relevant scientific work The application and appendices with certified translations into English or a Scandinavian language must be uploaded at Jobbnorge.

Application Deadline: 17 October 2022.

Pawel Burkhardt <Pawel.Burkhardt@uib.no>

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SmithsonianInst EvolutionaryBiology

Application for the Smithsonian Institution Fellowship Program (SIFP) < <https://fellowships.si.edu/-opportunity/smithsonian-institution-fellowship-program-sifp> > is now open. The deadline is November 1st, 2022.

The Smithsonian Institution Fellowship Program < <https://fellowships.si.edu/opportunity/smithsonian->

[institution-fellowship-program-sifp](#) > offers opportunities for independent research or study related to Smithsonian collections, facilities, and/or research interests of the Institution and its staff. Fellowships are offered to graduate students, predoctoral students, and postdoctoral researchers to conduct independent research and to utilize the resources of the Institution with members of the Smithsonian professional research staff serving as advisors. These fellowships are offered through the Smithsonian's Office of Academic Appointments and Internships.

Application deadline: November 1, 2022. Eligibility Determination of the fellowship category for which to apply should be based on the anticipated academic level at the time the fellowship would begin:

Postdoctoral Fellowships - for scholars up to seven years beyond the Ph.D.*

Predocctoral Fellowships - for doctoral candidates to conduct dissertation research. Students enrolled in a university as candidates for the Ph.D. or equivalent are eligible for predoctoral fellowships.

Ten-Week Graduate Student Fellowships - for graduate students to conduct independent research usually before having been advanced to candidacy if in a Ph.D. program.

* If you have taken a "leave of absence" from research and wish to apply under the postdoctoral fellowship application instead of senior fellowship application which makes you 7 or more years out from receiving your Ph.D., please provide a justification in the additional information section at the end of the application.

Term and Stipend Postdoctoral Fellowships - Term: 3 to 12 months**; Stipend: \$55,000 per year; Research Allowance: up to \$5,000

Predocctoral Fellowships - Term: 3 to 12 months; Stipend: \$42,000 per year; Research Allowance: up to \$5,000

Ten-Week Graduate Student Fellowships - Term: 10 weeks; Stipend: \$8,000

Fellowship tenures must begin between June 1, 2023 and May 30, 2024.

** Postdoctoral applicants in Science may apply for up to 24 months.

For further information, please contact the Office of Academic Appointments & Internships (OAAI) at FellowsSI@si.edu. For information about opportunities within the Department of Invertebrate Zoology you can contact osbornk@si.edu or any curator within the department <https://naturalhistory.si.edu/research/-invertebrate-zoology>. OsbornK@si.edu

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SmithsonianTRI QuantitativeMetabolomics

Smithsonian Tropical Research Institute

September 1, 2022

NOTICE OF OPENING

Applications for a ***Post-doctoral Research Scientist*** will be accepted effective immediately.

The Smithsonian Tropical Research Institute (STRI www.stri.si.edu) and the University of Texas at Austin seek a quantitative ecologist as a post-doctoral scientist. The project concerns plant defense, its relationship to environment, and its consequences for recruitment, growth, survival, abundance, and geographic distributions of tropical trees. Data sets in hand include recruitment, growth, and survival rates; abundances; geographic distributions; a variety of functional traits; and newly acquired metabolomes of several hundred tropical tree species and soil nutrient availability and rainfall seasonality for 60 mapped forest plots. The post-doctoral scientist will be able to begin new analyses on day 1.

Candidates should have strong computational and writing skills. Training will be provided for planned analyses, with latitude for related independent research and professional development. The project provides three years of funding, opportunities for multiple lead author publications, and ownership of future research directions. There are funds to support travel to international meetings. The location is at STRI in Panama for the first two years, with extended visits to the University of Texas in Austin for additional professional development, and at the University of Texas at Austin (Brian Sedio lab) for the third year. STRI fosters a lively, collaborative research community, with 32 Staff Scientists, a similar number of post-doctoral fellows, and over 1,200 international scientists visiting annually. Ability to communicate with a wide range of people in a multicultural environment will be considered.

Applications will be evaluated as they are received. The successful applicant could begin in 2022; however, the position will be held open for the right applicant.

To Apply: Interested candidates should submit a single PDF file including cover letter, curriculum vitae,

statement of research accomplishments and interests, significant publications, and the names and contact information of three references to S. Joseph Wright at wrightj@si.edu. The position is open until filled; review of applications will begin on 1 November 2021.

STRI does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, under-represented minorities or other non-merit factor. We are an Equal Opportunity employer, committed to diversity in our workforce.

Brian E. Sedio Assistant Professor Department of Integrative Biology University of Texas at Austin sedio@utexas.edu

Research Associate Smithsonian Tropical Research Institute Panama

sedio@utexas.edu

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StockholmU YeastGenomicsEvolution

Postdoctoral position in Yeast Genomics and Evolution at Stockholm University, Sweden Start date: as soon as possible Application date: 23 October 2022

We are looking for a postdoc to join our Yeast Evolution and Genomics lab at Stockholm University in Sweden. Applicants will have a strong interest in evolutionary processes, especially in adaptation mechanisms, and be familiar with the principles of quantitative and population genetics. Ideally, the candidate has experience in experimental evolution, molecular genetics/genomics, and bioinformatics. Prior training in experimentation with *Saccharomyces* yeast and strong quantitative skills are desirable. Applicants should be well-organized, self-motivated, good communicators, and happy to work in an international team. Applicants must hold a PhD in evolutionary biology or a similar subject. Starting date is as soon as possible. Please apply through the official Stockholm University job platform: tinyurl.com/mryn287f

The Stelkens Lab is working on a range of topics includ-

ing hybridization, the genetic architecture of complex traits, and adaptation to environmental stress. We use mostly experimental but also theoretical approaches. While the project is flexible and depends on personal preferences and ideas, the applicant is encouraged to develop a project that harnesses the power of experimental evolution, genomics, and the model system *Saccharomyces*, to address fundamental questions in evolutionary biology.

Candidates will benefit from training in a vibrant intellectual department with many opportunities for professional development. You will be part of a large collaborative lab, involving 8 researchers from 7 different countries. The position (100% research) is for 2 years with a possibility for extension. You will also be given the opportunity to teach undergrad courses.

The campus is located four metro stops from the centre of Stockholm, one of the most beautiful and dynamic European cities, surrounded by beautiful nature. The campus is home to a vibrant scientific community, including the Science for Life Laboratory (a leading genomics core facility that we routinely use) and the Swedish Museum of Natural History featuring some specimens collected and labelled by Carl Linnaeus! Sweden is a free and open society, and one of the world's most innovative and research-positive nations. People here enjoy a respected system of democracy and individual rights, freedom of speech, gender equality, a free press, and the right to scrutinize those in power. Most Swedes speak English well. Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Further information about the position can be obtained from Rike Stelkens rike.stelkens@zoologi.su.se. Check out the lab website for recent news and publications (stelkenslab.com).

Rike Stelkens Associate Professor / Wallenberg Fellow Population Genetics, Department of Zoology Stockholm University, Sweden

email: rike.stelkens@zoologi.su.se tel: +46 (0) 816 4223
lab website: stelkenslab.com

Rike Stelkens <rike.stelkens@zoologi.su.se>

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StonyBrookU WildlifeVirusEvolution

A highly integrative postdoctoral position for which evolutionary biologists are eligible is available as part of a NSF-supported collaboration < https://www.nsf.gov/awardsearch/showAward?AWD_ID=2217296&HistoricalAwards=false > between the Dávalos lab at Stony Brook University and the Rasmussen lab at the Vaccine and Infectious Disease Organization (VIDO) at the University of Saskatchewan. This project, titled “Integrated mechanisms of environment-host-virome interactions,” is part of a wider collaboration with the Kingston (Texas Tech University) and Anthony (University of California, Davis) labs. Our goal is to discover the mechanisms governing relationships among the environment, the wildlife host, and the viral communities they support by answering three key questions: (1) how do host abundance, reproduction, age, and condition differentially or interactively influence viral diversity; (2) how do molecular immune mechanisms respond to environmental and physiological stressors in wild populations; and (3) how do gene expression profiles and viral infection influence one another in the wild?

The postdoctoral researcher at Stony Brook and VIDO/USask will primarily focus on the second and third questions while working closely with two other postdoctoral researchers at collaborating institutions, as well as advancing education by implementing an innovative active-learning experience called “From the Bat Cave - Integrative Disease Research for Undergraduates.”

Applications will remain open through Oct. 23: *2203358- Postdoc Associate- Ecology & Evolution* < https://stonybrook.taleo.net/careersection/2/jobdetail.ftl?job=2203358&tz=-GMT-04%3A00&tzname=America%2FNew_York >

For questions or more information contact: liliana.davalos@stonybrook.edu or angela.rasmussen@usask.ca

Liliana M. Dávalos appointments: <https://calendly.com/lmdavalos> site: <https://lmdavalos.github.io/> publications: <https://scholar.google.com/citations?user=XSWSchGAAAAJ>
twitter: @LabDavalos office: 631.632.1554

Liliana Davalos <Liliana.Davalos@stonybrook.edu>
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ing@mcmaster.ca)

TexasTechU EvolutionGutMicrobiome

The labs of Tigga Kingston and Caleb Phillips at Texas Tech University are seeking to fill a post-doc position as part of the National Science Foundation-supported project “Community processes structuring assembly and disassembly of bat gut-microbial communities across a gradient of habitat degradation”. This project integrates bat genetics, molecular dietary analysis, and microbiome data from forest interior insectivorous bats sampled across a habitat degradation gradient in Malaysia with the objective of quantifying processes and relationships shaping microbiome communities. As such, the successful applicant will have expertise and enthusiasm for the integration of omics data and ecology. The position will be funded for one year with a possible second year depending on performance. The position is open to applicants wishing to relocate to Lubbock, Texas, as well as to those preferring to work remotely within the United States. Application packages should include CV, contact information for three references, Research Statement, and three examples of the applicant’s published work. Please submit applications to caleb.phillips@ttu.edu with the subject line “Microbiome Assembly Postdoc”.
“Mohd-Azhar, Isham” <Isham.Mohd-Azhar@ttu.edu>
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ing@mcmaster.ca)

TrentU CaribouConservationGenomics

PDF & PhD Positions in Caribou Conservation Ge-
nomics

Supported by Genome Canada and NSERC Alliance, Dr. Paul Wilson (Trent) and Dr. Micheline Manseau (ECCC, Trent) through EcoGenomics (ecogenomic-
scanada.ca) are recruiting PhDs and Post-doctoral Fel-
lows (PDFs) focusing on caribou conservation.

Project opportunities include studying caribou ecotypes in Ontario’s Ring-of-Fire region; the adaptive genomics of caribou including climate change and rapidly evolving genes; genomic erosion in isolated caribou populations (natural and captive) and at the southern range margins of boreal caribou; landscape genomics of Mountain caribou in the Northwest Territories and the Yukon; ancient DNA; and a comparison of caribou across the boreal range.

The national network supporting these positions include partnerships with Environment & Climate Change Canada (ECCC); Canadian Wildlife Service (CWS); Parks Canada; the Ontario Ministry of Natural Resources & Forestry (OMNRF), and other provincial (e.g. Alberta, British Columbia, Manitoba, Saskatchewan) and territorial jurisdictions (Northwest Territories, Yukon, Nunavut); wildlife management boards and Indigenous communities (e.g. the Sahtu Wildlife Management Board); and industry such as MB Hydro. Field work and partnership placement opportunities are available.

Positions may be based out of Peterborough, Ontario at Trent University or Ottawa at the National Wildlife Research Centre, Environment & Climate Change Canada (ECCC).

One or more of the following will be considered as-
sets: 1. Bioinformatics and computational biology; 2. Molecular genomic protocols; and 3. Estimation of de-
mographic parameters using spatial capture- recapture (sCR); density estimation; population modelling; and network analyses.

PDF salaries are \$55,000 - \$60,000 per year including benefits, with positions ranging up to 2-3 years. Com-
petitive PhD stipends will be provided.

Send a Cover Letter and CV to: Dr. Paul Wilson
pawilson@trentu.ca Dr. Micheline Manseau miche-
line.manseau@ec.gc.ca

Bridget Redquest <bridgetredquest@trentu.ca>

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ing@mcmaster.ca)

UAberdeen PopulationGenomics RangeShifts

UAberdeen.PopulationGenomics_RangeShifts

An enthusiastic, motivated, and creative postdoctoral

fellow is sought to join a collaborative team within the School of Biological Sciences to develop new ways of harnessing population genetic data to predict biodiversity responses to shifting climates. Evidence is accumulating that spatially-explicit genetic data from landscape genetic studies may be instrumental in predicting, tracking, and managing biodiversity responses. Nonetheless, evidence accumulated to date remains idiosyncratic and poorly synthesized, thus we still lack a unified understanding of the link between genetic variation across space and biodiversity responses in time. This project aims to integrate existing landscape genetic and epigenetic data, both within our single core study system and model system of range shift genetics (the blue-railed damselfly, *Ischnura elegans*), and across multiple species in a comparative context, to improve our understanding of biodiversity responses.

The ideal candidate has a strong background in bioinformatics and population genetics, especially under non-equilibrium demographic conditions, and is interested in applying this knowledge to data synthesis and model integration to improve eco-evolutionary forecasting.

The position is supported by a strong team of population genetics empiricists and modellers (led by Lesley Lancaster, Kara Layton, Greta Bocedi, and Justin Travis), who are embedded within a global collaborative network that will maximize both the impact of the work and the advancement opportunities to the postdoctoral researcher.

Salary will be at the spinal point 30 on Grade 6 (i.e. £35,333 per annum).

As this is funding limited post, it is available for 24 months.

Informal enquiries should be made to Lesley Lancaster, Reader in Biological Sciences, e-mail: lesley-lancaster@abdn.ac.uk.

Should you require a visa to undertake employment in the UK you will be required to fulfil the minimum points criteria to be granted a Certificate of Sponsorship under the requirements of the Skilled Worker visa. At the time an offer of appointment is made, you will be asked to demonstrate that you fulfil the criteria in respect of qualification and competency in English. For research and academic posts, we will consider eligibility under the Global Talent visa. Please do not hesitate to contact Patrycja Bromm, HR Adviser (Graduate Trainee) (e-mail: patrycja.bromm@abdn.ac.uk) for further information.

To apply online for this position visit <https://www.abdnjobs.co.uk/vacancy/research-fellow-498978.html> Job Reference Number: SBS123R

The closing date for the receipt of applications is 21 October 2022

Dr. Lesley Lancaster School of Biological Sciences University of Aberdeen Aberdeen, AB24 2TZ United Kingdom (+44) 01224274551

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“Lancaster, Lesley” <lesleylancaster@abdn.ac.uk>

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UBrest France FungalGenetics

OFFER: The Microbial Biodiversity and Ecology Laboratory (LUBEM) (France) is welcoming applications from enthusiastic post-doctoral candidates to study the role of genes potentially implicated in adaptation in the fungal species *P. roqueforti*. This research is part of the FUNGADAPT project, funded by the French National Research Agency (ANR), in collaboration with the Ecology, Systematic and Evolution laboratory (UMR 8079) from Paris-Saclay University. The targeted genes result from comparative genomics data among *P. roqueforti* genetic populations as well as QTL data. The project will rely on the use of CRISPR/Cas9 to validate the role of the targeted genes. The position is available from January 2023 for 1 year. Deadline for application is 30 October 2022.

ENVIRONMENT: The LUBEM, headed by Pr. Emmanuel Coton, is a laboratory at the Université de Bretagne Occidentale situated in Plouzané (close to Brest) in Western Brittany, France. The laboratory is composed of about 50 members including 25 teachers/researchers dedicated to studying the ecology, physiology, metabolism and control of fungi, mainly in the agri-food environment. The laboratory is equipped for microbiology, molecular biology, biochemistry and toxicology studies. The team is renowned for advancing research in the field of food mycology with members in the International Commission of Food Mycology. It was recently labelled by the French National Research Institute for Agriculture, Food and Environment (INRAE).

PROFILE REQUIRED: The applicants must hold a PhD and have a proven record of accomplishment in

the field of fungal genetics. Expertise in mycology, fungal transformation and CRISPR/Cas9 applications is required. The candidate should be highly driven, autonomous, have excellent verbal and written communication skills in English, along with interpersonal skills. HOW TO APPLY: Applicants should e-mail a cover letter and a detailed CV including publication list and contact details for at least two referees to emmanuel.coton@univ-brest.fr.

RECENT PUBLICATIONS RELATED TO THE POSITION:

- Dumas E, Feurtey A, Rodríguez de la Vega RC, Le Prieur S, Snirc A, Coton M, Thierry A, Coton E, Le Piver M, Roueyre D, Ropars J, Branca A, Giraud T Independent domestication events in the blue-cheese fungus *Penicillium roqueforti*. *Mol Ecol.* 2020; 29(14):2639-2660. doi: 10.1111/mec.15359 - Hidalgo PI, Poirier E, Ullrich RV, Piqueras J, Meslet-Cladière L, Coton E, Coton M. Appl Microbiol Biotechnol. *Penicillium roqueforti* PR toxin gene cluster characterization. 2017; 101(5):2043-2056. doi: 10.1007/s00253-016-7995-5 - Gillot G, Jany JL, Dominguez-Santos R, Poirier E, Debaets S, Hidalgo PI, Ullrich RV, Coton E, Coton M. Genetic basis for mycophenolic acid production and strain-dependent production variability in *Penicillium roqueforti*. *Food Microbiol.* 2017; 62:239-250. doi: 10.1016/j.fm.2016.10.013 - Gillot G, Jany JL, Poirier E, Maillard MB, Debaets S, Thierry A, Coton E, Coton M. Functional diversity within the *Penicillium roqueforti* species. *Int J Food Microbiol.* 2017; 241:141-150. doi: 10.1016/j.ijfoodmicro.2016.10.001

Jean-Luc Jany <jean-luc.jany@univ-brest.fr>

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UBuffalo Paleogenomics sedaDNA

A Postdoctoral Research Fellowship in Plant and Animal Paleogenomics is available as part of a highly interdisciplinary and collaborative project funded by a new 4-year National Science Foundation Understanding the Rules of Life - Emergent Networks award. The project will study Late Pleistocene-Holocene climate change in Southeast Alaska, focusing on rapid warming events following the last glacial maximum. We are a project team of two biology and two geology professors at the University at Buffalo with expertise

in the topic and region of study. You can find the abstract of the award (“URoL:EN: Integrating paleogenomics, ecology, and geology to predict organism-environment coupled evolution during rapid warming and ice sheet retreat”) here: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2221988 The Research Fellowship is anticipated to start February, 2023, and expected to be 2 years with possibility for extension. The postdoc research will include considerable ancient environmental DNA work on lake core sediment samples (sedaDNA) collected from SE Alaska, and we are looking for someone with a relevant background in sedaDNA or ancient DNA analyses to come work with us. Required qualifications are a Ph.D. in biology (botany/zoology), or closely related fields. Candidates must have excellent English writing and verbal communication skills, as well as an established record of productivity.

The project has caught the attention of climate change progressives in the US government; US Senate Majority Leader Charles Schumer and colleagues generated the following press release highlighting our work: <https://www.schumer.senate.gov/newsroom/press-releases/schumer-gillibrand-announce-nearly-3-million-in-national-science-foundation-funding-for-the-university-at-buffalo-to-study-the-impacts-of-climate-change> See also here for more info: <https://www.buffalo.edu/ubnow/stories/2022/09/climate-change-alaska.html>

Some papers that have so far resulted from our collaborative SE Alaska research:

Lesnek AJ, Briner JP, Lindqvist C, Baichtal JF, Heaton TH. Deglaciation of the Pacific coastal corridor directly preceded the human colonization of the Americas. *Science advances.* 2018 May 30;4(5):eaar5040.

da Silva Coelho FA, Gill S, Tomlin CM, Heaton TH, Lindqvist C. An early dog from southeast Alaska supports a coastal route for the first dog migration into the Americas. *Proceedings of the Royal Society B.* 2021 Feb 24;288(1945):20203103.

Colella JP, Lan T, Schuster SC, Talbot SL, Cook JA, Lindqvist C. Whole-genome analysis of *Mustela erminea* finds that pulsed hybridization impacts evolution at high latitudes. *Communications Biology.* 2018 May 31;1(1):1-0.

Please contact Charlotte Lindqvist, CL243@buffalo.edu Department of Biological Sciences University at Buffalo Buffalo, New York

Charlotte Lindqvist <cl243@buffalo.edu>

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UCalifornia Davis PlantPopPersistence

The Maloof, Magney, and Gremer labs, and science educator Jamison-McClung at UC Davis are recruiting a postdoctoral scholar for research and training as part of a collaborative, interdisciplinary research project. This NSF-funded project seeks to integrate quantitative genetics, genomics, ecology, and remote sensing to understand and predict plant population persistence in the face of climate change.

Trainees will be engaged in rigorous, interdisciplinary work that integrates genetic, physiological, and environmental data to answer fundamental questions about population responses to climate shifts and consider the potential societal and policy impacts. Through workshops, coursework, peer-to-peer learning, and a mentoring network, the postdoctoral scholar will gain skills in computational, field, and remote sensing approaches. We will also focus on building broad professional skills useful for a variety of post-PhD career paths, including an introduction to science communication, science policy, project management and best practices for creating inclusive research environments.

Our project team is looking forward to working with a diverse, interdisciplinary group of graduate students and postdoctoral researchers. We encourage all interested applicants to contact one of the participating lab PI's (contact info below) to discuss their interest in:

- Working broadly across disciplines with scientists at various stages of training and from diverse backgrounds.
- Analyzing, synthesizing, and communicating results from field work, remote sensing, and genetics/genomics to understand drivers of population dynamics and persistence.
- Gaining experience in mathematical modeling, statistical analysis, data science, and bioinformatics.
- Developing transferable professional skills necessary for long term success as a PhD scientist across public (e.g. academia and government) and private (e.g. industry and non-profits) sectors
- Communicating results through scientific publications, presentations, and outreach.

UC Davis is an Affirmative Action/Equal Opportunity employer, and we particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals' with disabilities, veterans, LGBTQ community members, and others

who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct> Starting salary \$55,000 - \$60,000 depending on years of postdoctoral experience.

How to Apply: Apply at <https://recruit.ucdavis.edu/JPF05232> Interested applicants should feel free to contact the PIs: Julin Maloof (jnmaloof@ucdavis.edu), Troy Magney (tmagney@ucdavis.edu), Jenny Gremer (jrgremer@ucdavis.edu), and Denneal Jamison-McClung (ds-jamison@ucdavis.edu) for more information.

Jennifer Gremer <jrgremer@UCDAVIS.EDU>

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UCalifornia Davis PopulationBiology

DEADLINE: November 1, 2021 POSTDOCTORAL FELLOW IN POPULATION BIOLOGY

The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their Ph.D.

The position is for TWO YEARS, subject to review after one year, and can begin as early as July 1, 2023. This position is covered by a collective bargaining unit. It has a starting annual salary of \$55,632 plus benefits, and \$6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Graham Coop, can provide additional input on this aspect of the fellowship. For

samples of past workshop abstracts and more information about UC Davis programs in population biology, see <https://cpb.ucdavis.edu/cpb-postdoc-fellowship>. Workshop proposals can focus on broad research techniques or topics, career development, or diversity equity and inclusion activities.

ONLINE APPLICATION: Interested candidates should submit a cover letter, a CV, a short description of research accomplishments (1-2 pages), a short description of proposed research including potential faculty mentors (1-2 pages; references may be in addition to the page limit), a brief description of their proposed workshop (1 page or less), copies of two manuscripts (published, preprints, or drafts), and a statement of contributions to diversity, equity, and inclusion. All documents should be submitted in PDF format at: <https://recruit.ucdavis.edu/JPF05276>. Applicants should also provide the information requested for three referees. Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. Therefore, we ask the applicant to please advise the reference writers to comment on the candidate's past roles as a mentor and/or a community member. Refer to the on-line instructions for further information.

For full consideration, applications (including letters of reference) must be received by November 1, 2022. E-mail questions to smmann@ucdavis.edu.

The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for diversity.

Graham Coop Professor, Department of Evolution and Ecology Director of the Center for Population Biology. University of California, Davis [gmcoop.org](http://www.eve.ucdavis.edu/gmcoop/) < <http://www.eve.ucdavis.edu/gmcoop/> > Storer Hall, One Shields Ave., Davis, CA 95616 Ph: 530-752-1622 Fax: 530-752-1449

gmcoop@ucdavis.edu

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UCalifornia SanDiego EvolutionExperimentTheory

The Kryazhimskiy lab at UC San Diego is looking for a postdoc. There are both funded projects and a possibility to develop new directions. We are generally interested in understanding and eventually predicting how microbial populations and communities evolve. We currently use laboratory experiments and mathematical modeling, but we are also interested in expanding into new areas (e.g., observing microbial communities in semi-natural conditions).

Our publications are here: <http://sklab.science/publications> <https://scholar.google.com/citations?user=cEr8jtAAAAAJ&hl=en> More details about the position are here: <http://sklab.science/opportunities> Sergey Kryazhimskiy <skryazhi@ucsd.edu>

skryazhi@ucsd.edu

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UDuesseldorf UCologne PlantEvolutionaryGenomics

A post-doc position (100% TV-L/13) jointly supervised by Prof. L. Rose at the University of Duesseldorf and Prof. T. Wiehe at the University of Cologne (Germany) is available immediately within a new research initiative called TRR 341 "Plant Ecological Genetics".

The aim of our research project (B5) is to understand how copy number variation in plants contributes to adaptation. The successful candidate will apply newly developed NGS methods to determine copy number variation within a set of focal plant species and work closely with other team members to model and determine if and how natural selection structures genetic variation within gene clusters.

More details on specific methods and objectives are available directly from L. Rose (laura.rose@hhu.de) or T. Wiehe (twiehe@uni-koeln.de).

Requirements for this position are a PhD in Evolutionary Biology, Quantitative Biology, Bioinformatics or a closely related field. Prior experience with Population Genetics, NGS data, SNP calling, genome annotation, and standard molecular techniques is essential. Demonstrated ability to work independently, as well as interest to co-supervise students is strongly recommended. The post-doc will work closely with both research groups in Duesseldorf and Cologne. The day-to-day language in both groups is English, so a demonstrated ability to communicate effectively in English (written and spoken) is required.

Please send your application as a single pdf to Laura Rose (e-mail: laura.rose@hhu.de). Your application should include a CV, a letter of motivation and prior research experience (maximum 2 pages), relevant degree certificates and the name, contact and affiliation of 2-3 referees. Review of applications will begin immediately and continue until the position is filled.

Websites for more information: Prof. L. Rose, University of Duesseldorf, website: popgen.hhu.de/en Prof. T. Wiehe, University of Cologne, website: bioinf-popgen.uni-koeln.de TRR 341 project summaries, website: ag-demeaux.botanik.uni-koeln.de/trr341

Laura Rose <Laura.Rose@hhu.de>

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UEdinburgh PopulationGenetics

Postdoctoral Research Associate Position available at the Institute of Ecology and Evolution, University of Edinburgh, UK.

Link below for the full advert, including a complete job description and the application process: https://elxw.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/5034/-?utm_medium=jobshare Three year position, application deadline is the 10th October. Please contact me if you have any questions. Further details below.

Grade UE07: 35,333 - 42,155 per annum

College of Science and Engineering/School of Biological Sciences/Institute of Ecology and Evolution

Fixed-term contract: 36 months (Expected dates:

1/01/2023-31/12/2025)

Full time: 35 hours per week

A postdoctoral research position is available in the lab group of Dr Matthew Hartfield, through a recently-funded ERC Consolidator Grant/UKRI Frontier Research Grant (SelectSelf - Rethinking Evolution in Self-Fertilising Species). We are looking for an enthusiastic and motivated postdoctoral researcher who is interested in evolutionary genetics and mating-system evolution.

The Opportunity:

The focus of the project will be to:

- 1) Develop novel mathematical models to quantify how high-diversity regions are maintained in self-fertilising species.
- 2) Build these into inference tools to determine the source of high-diversity regions from genome data, with application to a dataset of *Caenorhabditis* genomes.

There will also be scope for the postdoc to develop their own research plans with a view to becoming an independent investigator. The project will involve collaboration with partners within the UK and overseas. There are substantial funds within the grant for computing and conference attendance. The project will be funded for three years in the first instance, with a possibility for extension based on performance and financial availability.

Your skills and attributes for success:

- Interest in theoretical and computational population genetics.
- PhD in a quantitative biological discipline (or another quantitative subject, e.g., computer science).
- Knowledge of computational biology tools, including R and command-line interfaces.
- Evidence of creativity and problem-solving to tackle scientific problems.
- Ability to work independently.

Matthew Hartfield m.hartfield@ed.ac.uk <https://-matthartfield.wordpress.com> The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'À'n Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

Matthew Hartfield <mhartfie@exseed.ed.ac.uk>

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UExeter Two Evolutionary Biology

For the 1st job:

Postdoctoral Research Fellow University of Exeter - Faculty of Health and Life Sciences Location: Exeter Salary: The starting salary will be from 37,474 on Grade F, depending on qualifications and experience. Hours: Full Time Contract Type: Fixed-Term/Contract Placed On: 9th September 2022 Closes: 2nd October 2022 Job Ref: P84170

This full-time, Wellcome Trust funded role is available from 1 October 2022 (or as soon as possible thereafter) on a fixed-term basis until 1 October 2026.

The post:

The Faculty wishes to recruit a Postdoctoral Research Fellow to participate in the work of Dr. Rhys Farrer.

The successful applicant will have proven experimental skills in microscopy, tissue culture, molecular biology, and, to carry out biomedical laboratory research. The post will require developing new approaches and pipelines, tissue culture, animal work, and molecular biology techniques. Capacity to handle and work with mice is essential, and previous experience is desired (but not essential, as training will be provided).

About you:

The successful applicant will be able to develop research objectives, projects and proposals; identify sources of research funding and contribute to the process of securing funds and make presentations at conferences and other events.

Applicants will possess a relevant PhD or equivalent qualification/experience in a related field of study. The successful applicant will be a nationally recognised authority in a relevant field of study (e.g., microbiology, cell biology, genetics) and possess sufficient specialist knowledge in the discipline to develop research programmes and methodologies. The successful applicant will also be able to work collaboratively, supervise the work of others and act as team leader as required. Applicants will have expertise in routine wet lab/molecular lab techniques, including microscopy, tissue culture, molecular biology and nucleic acid extractions.

Please ensure you read the Job Description and Person Specification (available on the university's website, accessed by the apply button) for full details of this role.

Further information:

For further information please contact Dr. Rhys Farrer, e-mail r.farrer@exeter.ac.uk or telephone (01392) 727594.

The closing date for completed applications is 2nd October 2022.

For the 2nd job:

Postdoctoral Research Fellow in Bioinformatics University of Exeter - Faculty of Health and Life Sciences Location: Exeter Salary: The starting salary will be from 37,474 on Grade F, depending on qualifications and experience. Hours: Full Time Contract Type: Fixed-Term/Contract Placed On: 9th September 2022 Closes: 2nd October 2022 Job Ref: P84169

This full-time, Wellcome Trust funded role is available from 1 October 2022 (or as soon as possible thereafter) on a fixed-term basis until 1 October 2026.

The post:

The College wishes to recruit a Postdoctoral Research Fellow in Bioinformatics to support the work of Dr. Rhys Farrer.

The successful applicant will have expertise in bioinformatics and will lead the analysis of a variety of data types including DNaseq, RNAseq and ChIPseq. The applicant will also have a keen interest in understanding fungal pathogenicity and drug resistance, with a particular focus on *Cryptococcus* species during this project. The post will include working on the University of Exeter's high performic computing facility.

About you“

The successful applicant will be able to develop research objectives, projects and proposals; identify sources of research funding and contribute to the process of securing funds and make presentations at conferences and other events.

Applicants will possess a relevant PhD or equivalent qualification/experience in a related field of study. The successful applicant will be a nationally recognised authority in Bioinformatics and possess sufficient specialist knowledge in the discipline to develop research programmes and methodologies. The successful applicant will also be able to work collaboratively, supervise the work of others and act as team leader as required. Applicants will have expertise in a scripting language such as Perl or Python, as well as shell (E.g., Bash) and R.

Please ensure you read the Job Description and Person Specification (available on the university's website, accessed by the apply button) for full details of this role.

Further information:

For further information please contact Dr. Rhys Farrer, e-mail r.farrer@ex.ac.uk or telephone (01392) 727594.

The closing date for completed applications is 2nd October 2022.

”Farrer, Rhys“ <R.Farrer@exeter.ac.uk>

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UHelsinki EvolEcol

A 3 year post-doctoral position is available at the University of Helsinki, Finland to work in Prof. Craig Primmer’s research group (<http://www.helsinki.fi/evolution-conservation-and-genomics>). The position is a part of an ERC-funded Advanced Grant entitled “Life history genes in fishes: bridging functional and evolutionary genetics for understanding life history trait evolution”. This post-doc will focus on estimating salmon reproductive fitness and the (potentially sex-specific) strength of selection acting on life-history traits and the associated large effect loci in 12 European Atlantic salmon populations. (Mobley et al. 2019, 2020). The project involves collaboration with teams in Norway, Finland, Ireland and France (Barson et al. 2015; Bolstad et al. 2017; Czorlich et al. 2022; Erkinaro et al. 2019; O’Sullivan et al. 2020; Lamarins et al. 2022), and there will be opportunities to spend time in the collaborating laboratories. Considerable data are already available, and more will be generated during the project. This work is complemented by functional, population and quantitative genetic research being conducted within the same and related projects by others in the group.

An appointee to the position shall hold a doctoral degree and have the ability to conduct independent scholarly work. Suitable applicants will have a strong background in evolutionary ecology and/or evolutionary genetics as demonstrated by publications in relevant fields. Previous research experience in one or more of the following topics is advantageous: selection co-efficient estimation, mate-choice at the phenotypic or genetic level, population or individual-based evolutionary modeling, balancing selection and sexual conflict resolution. The ability to work as a part of a larger research team and collaborator network addressing related questions is also important.

Informal inquiries can be directed to Professor Craig

Primmer (craig.primmer@helsinki.fi). Formal applications should include: - a CV including a list of publications and with names and contact details of at least two referees - a max. 2-page letter of motivation

To apply, please submit your application using the University of Helsinki electronic recruitment system by clicking on “Apply for job” via <https://www.helsinki.fi/en/open-positions> The deadline for applications is Thursday September 8, 2022. The positions is available immediately, but a start date up to the early months of 2023 may be considered (although an earlier start is preferred).

The positions are initially available until 12/2025, but a 1-2 year extension may be possible. The salary will be based on level 5 of the demands level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component based on personal performance with the overall starting salary amounting to c. 3200-3600 EUR per month, depending on the previous relevant research experience of the candidate.

Finland is a member of the EU, has high quality free schooling (also in English), very affordable childcare, generous family benefits and healthcare, and has been ranked as the world’s happiest country three years running and the best country in the world for expat families. The University of Helsinki is a top 100 ranked university in most ranking lists, and is currently investing heavily in life science research (see <https://www.helsinki.fi/en/helsinki-institute-of-life-science>) and the City of Helsinki is in the world’s top ten most livable cities. Primmer’s research group currently consists of 4 post docs, 7 PhD students and 3 research assistants with 11 different nationalities. The salmonid fish research field has traditionally lacked diversity, but the group is committed to helping to influence a change and we therefore strongly encourage applications from researchers with diverse backgrounds, beliefs and talents. Successful applicants are expected to adhere to the university and research group’s codes of conduct.

The University of Helsinki is an international scientific community of 40,000 students and researchers. It is one of the leading multidisciplinary research universities and ranks among the top 100 international universities in the world.

We are an equal opportunity employer and offer an attractive and diverse workplace in an inspiring environment with a variety of development opportunities and benefits.

The Faculty of Biological and Environmental Sciences is Finland’s most high-profile and extensive hub of research

and teaching in the field. The Faculty educates experts to meet the needs of universities, research institutes, government, schools and the business sector.

Relevant articles:

— / —

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

UHelsinki UrbanBiodiversityLoss

The postdoctoral researcher is expected to focus his/her research on biodiversity and its loss in urban environments due to changes in ecological networks in the Helsinki Capital Region. The research will focus on invertebrate diversity in fragmented and isolated urban forests, both from the perspective of the contemporary landscape as well as the historical landscape. The response of biodiversity to urbanisation will be approached from both the community, intraspecific and functional trait response levels. (https://jobs.helsinki.fi/job/-Helsinki/754448902/?feedId=350602&utm_source=CareerSite_UniversityOfHelsinki).

Johan Kotze Docent, University Lecturer Faculty of Biological and Environmental Sciences Ecosystems and Environment Research Programme

Niemenkatu 73 FI-15140, Lahti, University of Helsinki, FINLAND Email: johan.kotze@helsinki.fi
Tel: +358 (0)50316 0576 <https://www2.helsinki.fi/en/researchgroups/urban-ecosystems/people#section-40445> Helsinki Institute of Sustainable Science, HELSUS <https://www.helsinki.fi/en/helsinki-institute-sustainability-science> “Kotze, Johan” <johan.kotze@helsinki.fi>

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UHongKong EvolConservationGenomics

Postdoc: University of Hong Kong

Applications are invited for appointment as Postdoctoral Fellow in Evolutionary and Conservation Genomics in the School of Biological Sciences (Ref.: 516729), to commence in January 2023 or as soon as possible thereafter for two years.

Applicants should possess a Ph.D. degree in evolutionary biology, population genetics, bioinformatics, conservation genetics or a related discipline, with a demonstrated record of research achievement. Those who are expected to complete a Ph.D. degree before the commencement date will also be considered. They should have experience in scripting in at least one language (preferably R or Python). Experience in shell scripting and working with computer clusters, working with whole genome or RAD-seq data, landscape/seascape genomics and inferring demographic history from genetic data would be highly advantageous. Fieldwork experience in marine ecosystems would also be beneficial.

The appointee will participate in projects on evolutionary and conservation genomics of flatfish, elasmobranchs and marine mammals. They will work on the development of predictive models of genetic diversity and differentiation using a combination of demographic modelling and seascape genetics, aimed at delineating conservation units including unsampled populations. They will also join other ongoing projects and have the possibility to contribute to studies on speciation, local adaptation, parallel evolution and conservation genetics of fishes and marine mammals. Several datasets are already at hand to ensure a rapid start of the work.

The appointee will have opportunities to interact with collaborators and be involved in different evolutionary and ecological genetics projects, and participate in field work.

Enquiries about the duties of the post should be sent to Dr. Paolo Momigliano at momi@hku.hk.

A highly competitive salary commensurate with qualifications and experience will be offered, in addition to annual leave and medical benefits. The University only accepts online application for the above post. Applicants should apply online (<https://jobs.hku.hk/en/job/-516729/postdoctoral-fellow>) and upload an up-to-date

C.V. with the contact information of three referees, cover letter and a statement of research interests and skills. Referees will be contacted only for shortlisted applicants. Review of applications will commence as soon as possible and continue until December 31, 2022, or until the post is filled, whichever is earlier.

momi@hku.hk

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< <https://www.kent.ac.uk/biosciences/people/1035/-farr%C3%A9-belmonte-marta> > Farré lab < <https://www.farre-evogenomicslab.com/> >

Marta Farre Belmonte <M.Farre-Belmonte@kent.ac.uk>

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UKent ComparativeGenomics

Postdoctoral Research Associate in Bioinformatics

Location: Canterbury, UK Salary: 26,386-40,931 Contract Type: Fixed term - 9 months Closing date: 28th September midnight BST

We are looking for an experienced and self-motivated individual to cover a period of maternity leave. Knowledge of evolutionary biology and bioinformatics would be essential. The Farre group (<https://www.farre-evogenomicslab.com/>) focuses on the role of genome structural changes during evolution in mammals and is currently studying a number of different species, including livestock and endangered species. There are several exciting ongoing projects to which you will contribute. The applicant will need a PhD in an appropriate field, have the ability to work independently, efficiently, creatively and collegially, and to supervise graduate students. They will possess strong oral communication skills and be highly self-motivated. The appointee will be based within the School of Biosciences and will deliver research based activities of a high standard, supervision of project students in projects related to the research group interests, as well as some teaching. The appointee will be expected to review current literature, design experiments, collect and analyse data and, supervise graduate students and communicate regularly with the PI.

Please contact me if you're interested: m.farre-belmonte@kent.ac.uk

Marta

Dr Marta Farré | Senior Lecturer in Genomics Director of Studies School of Biosciences, University of Kent Stacey Building G17 Canterbury, Kent, CT2 7NJ, UK ORCID < <https://orcid.org/0000-0001-9170-5767> > Twitter < https://twitter.com/marta_fb > Staff profile

ULodz VertebrateEvolution

Postdoc: EXILE - University of \AA ód \AA o - Department of Ecology and Vertebrate Zoology

DEADLINE FOR SUBMISSION OF APPLICATIONS: 20 October 2022

An exciting postdoctoral position funded by the Polish National Science Centre (NCN, grant EXILE) is available at the Department of Ecology and Vertebrate Zoology of the University of \AA ód \AA o (Poland) under the supervision of Philippe Kok (STELLAR Research Group, see <http://www.philippekok.com/stellar-research-group/>). The position is offered for one year, renewable for an additional year (thus 2 years) and is available from January 2023.

Brief scientific summary of the project: While potential responses of vertebrateEXobIoLogY on Earth) is to explore, document and understand how environmentally hostile naturally fragmented paleosurfaces may have driven/alterd peculiar behavioural, bio-physical and eco-physiological adaptations, and ultimately the evolutionary trajectories of vertebrates. EXILE focusses on the "Lost World" moonlike tabletop mountains of northern South America (tepuis). We hypothesize that ancient endemic lineages of vertebrates thriving on these paleosurfaces, such as the toad genus *Oreophrynella* and the lizard genus *Riolama*, have developed unique behavioural, bio-physical and eco-physiological traits/strategies to cope with the tepuis' highly contrasted environmental conditions. EXILE stems from our previous work in this unique system and was inspired by unconventional findings, testimony to the tremendous research discoveries yet to be made in this unusual ecosystem. It is well known that body temperature and water balance are jointly influenced by heat and water exchange within the organism and between the organism and its environment. This exchange is modulated by (i) the biophysical and physiological properties of the organism and by (ii) behavioural strate-

gies. Biophysical properties include morphology, surface properties, and metabolic modes. For instance, skin colour, thickness, and ultrastructure in reptiles and amphibians determine heating capacity and resistance to water loss. EXILE will specifically focus on two main complementary research axes: (1) thermal biology, and (2) bio-physical adaptations to dehydration. We will use selected Pantepui amphibians and reptiles on a single tepui summit at ca. 2,800 m elevation. In order to situate these results in the appropriate ecological and evolutionary context, we will also investigate non-insular upland (ca. 1,000 m elevation) closely-related taxa in the surrounding Pantepui tropical rainforest, as well as the closest relatives of the tepui taxa living in a Neotropical post-Pleistocene landscape at similar elevation (ca. 2,800 m elevation in the sub-paramo in the Andes). Field expeditions coupled with the use of advanced techniques such as highly sensitive thermal imagery, including the use of drones to record thermal images of the landscapes from the air, will be carried out to complete our project. We will also run a variety of cutting-edge behavioural tests, either in the native environment of the animals or in our field laboratory, and use modern imagery techniques (such as high-resolution X-ray microcomputed tomography and electronic microscopy).

Summary for the public is available here: <https://ncn.gov.pl/sites/default/files/listy-rankingowe/2020-09-30apsv2/streszczenia/505651-en.pdf> Requirements: We are looking for an out of the box thinker with strong motivation and positive energy, as well as an eye for the details and excellent organisational skills. The successful candidate will have a PhD in biological or closely related science and experience in field work, preferably under difficult conditions and during extended periods. The EXILE project involves heavy field work in different locations (such as tepui top, intervening forest at tepui foot, and one locality around 2,800m elevation in the Andes), for usually 6-8 weeks.

The ideal candidate will also have some of the following: Excellent publication record (according to experience); Excellent skills in statistics; Experience in behavioural tests; Experience in thermal imagery (a drone pilot license is a plus); Experience in $\hat{I}_{\frac{1}{4}}CT/SR$ - $\hat{I}_{\frac{1}{4}}CT/SEM/TEM$ /soft-tissue staining techniques; Experience in population estimates; Background in amphibians and/or reptiles eco-physiology

Among other things the successful applicant will conduct field work with the PI and other external collaborators, help analysing the data and disseminating our results (publications, conferences, etc.). Depending on her/his

skills (e.g., in genetics/genomics) the successful applicant will be involved in other research projects of the group. We are interested

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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/evodir.html>

UMaryland EvolutionAgingBats

The Wilkinson lab at the University of Maryland, College Park, seeks to hire a postdoc to join a new NSF-funded Biological Integration Institute titled “Discovering the mechanisms and evolution of aging differences between females and males.” The postdoc will be responsible for obtaining samples and data from multiple species of bats that will contribute to complimentary datasets generated by other members of the institute and be used to test hypotheses and develop predictive models.

The goal of the institute is to investigate how genome architecture, organismal biology, and phenotypic plasticity contribute to sex-specific aging and its evolution. The postdoc would help capture and sample bats from at least 12 different species and then process samples to obtain data on DNA methylation, gene expression, transposase accessible chromatin, mitochondrial function and DNA damage repair. Field, lab and computational work will be involved. The Institute involves 11 co-PIs at 8 institutions each of whom will collect comparable data from young and old males and females from a variety of different animals. Cross-training in new techniques from other members of the institute will be available.

This is a two-year appointment with potential for renewal for two additional years.

Qualifications A Ph.D. in biology or related field is required by the start date of the appointment. The successful applicant will help plan, conduct, and publish research, contribute to the professional development of undergraduate and graduate students, and assist with data dissemination and outreach. Candidates should have a strong background in evolutionary biology. A track record of excellent written and verbal communication, and the ability to work well with others is required. Prior experience with next generation sequence analysis is highly desirable.

How to apply Interested candidates should apply through the University of Maryland job portal at <https://ejobs.umd.edu/postings/99186>. Please feel free to email me (wilkinso@umd.edu), with “Post-doctoral position” in the subject line, before applying to ask questions. Review of applications will begin on October 1, but the position will remain open until filled.

Required application material:

- 1) Cover letter describing research interests and motivation
- 2) CV
- 3) Names and email addresses for 3 references

The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

Gerald Wilkinson Professor, Department of Biology

url: www.life.umd.edu/faculty/wilkinso
wilkinso@umd.edu

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UMemphis PopGen

Postdoc in Population Genomics

The Puckett Lab seeks a qualified and enthusiastic scientist for a postdoctoral position in population genomics of black bears. Specific projects may include applications of GEA for conservation and management, demographic history and genomic consequences of translocation programs, or temporal genomics with a focus on adaptation. Duties will include bioinformatics for existing or new data, figure and manuscript preparation, and contribution to writing sections of grants to sustain position funding. Duties may include sample collection and wet lab (DNA extraction, genomic library preparation) depending on the project.

This postdoctoral position has a 1 year duration with possibility of extension given grant outcomes. Salary is \$50k with benefits. Interested individuals may reach out informally (emily.puckett@memphis.edu) although formal applications must be submitted through the UofM Workforum system (<https://workforum.memphis.edu/postings/33381>). Preferred start date is Oct 15, 2022; thus, applications will be reviewed immediately.

Required skills include a PhD in evolutionary biology or genetics/genomics; experience with genomic data analyses; strong writing skills demonstrated through peer reviewed publications.

Emily Puckett (emily.puckett@memphis.edu)

“Emily Elizabeth Puckett (puckett3)”
<Emily.Puckett@memphis.edu>

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UMontpellier ExperimentalEvolution

mostdoctoral position in Montpellier (24 months): Analysis of evolution meta-experiment

<https://tinyurl.com/y4u3njt2> We are looking to hire a 2-year postdoctoral researcher (PDR), starting in January 2023, to analyze a large evolution meta-experiment, carried out in parallel on a range of model organisms (from viruses to plants). This work is part of the project ComplexAdapt, funded by the program BiodivOc from the region Occitanie, and the experiments are performed by different research groups from the consortium ExpEvolOcc. The objective is to understand how the complexity of environmental stress (one versus multiple challenges) affects the rate of adaptation, in terms of change in absolute fitness (population growth rate). All the groups are measuring fitness at different time points along the experiment on their model organisms. The aim of the postdoctoral project will be to jointly analyze all these datasets, to reveal transversal patterns that may be confronted to theoretical predictions from the literature, as well as identify key drivers of differences among systems.

Supervision: The PDR will be based at the CEFE in Montpellier (GEE team), but with regular visits to the ISEM (a few hundred meters apart), and will be jointly advised by Luis-Miguel CHEVIN (CEFE), Guillaume

MARTIN (ISEM), and Emanuel FRONHOFER (ISEM). All have expertise at the interface of experiments and theory, with complementary specificities (fitness concepts and measurements, demography and evolution across environments, analysis of meta-experiments). In addition, the PDR will regularly interact with all members of the consortium ExpEvolOcc, to assess the consistency of the analyses in the light of the knowledge base on each particular system.

Requirements:

- Demonstrated strong expertise in advanced statistical analyses: (Bayesian) hierarchical models and/or meta-analysis, time series and/or population dynamics analysis.
- Solid organizational skills: homogenizing and handling a database compiled from data collected by different groups using different measurement devices (spectrometer, cytometer.).
- Excellent relational abilities: Capacity to work on a large collaborative project, requiring numerous exchanges with network members, so as to ensure the homogeneity of analysis among datasets collected independently
- Interest for ecology and evolution, especially the dynamics of adaptation to new environments (theory, experiments), experimental evolution, microbial ecology/evolution, and/or population dynamics.

Broader context: Montpellier is host to an large community of ecologists. The PDR will directly benefit from this stimulating research environment, by being based in two of the largest research institutes on ecology and evolution. The PDR will also interact on a regular basis with all members of the consortium ExpEvolOcc, based in institutes with very strong departments in ecology (SETE Moulis), microbiology (IHPE, LIPME), or infectious diseases (MIVEGEC), providing a unique opportunity to build their academic network.

Salary: Wage will follow rules from the University of Montpellier, and will depend notably on experience. French salaries include social benefits such as health insurance.

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), Guillaume Martin (guillaume.martin@umontpellier.fr), and Emanuel Fronhofer (emanuel.fronhofer@umontpellier.fr), before October 18th.

Luis-Miguel CHEVIN <luis-

miguel.chevin@cefe.cnrs.fr>

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UMontpellier Two PlantPopulationsGenomics

Postdoc: UMontpellier.PlantPopulationsGenomics

POSTDOCTORAL RESEARCH SCIENTISTS ON
PLANT POPULATION GENOMICS

Two postdoctoral positions are open at IRD/University of Montpellier to work on plant population genomics in collaboration with Adeline Barnaud, Yves Vigouroux, and Olivier Franj̃ois.

A first position on neglected plant population genomics (18 months), mentor by A Barnaud & Y Vigouroux Funded under an EU project, the position will explore genomic diversity, population structure of tropical crops and study of plant adaptation to climate variation. Opportunity to do field trips and local training in East Africa.

A second position to work on plant genomic vulnerability to climate changes (18 months up to 36 months) mentor by O Franj̃ois & Y Vigouroux Funded under an ANR project, the position will explore plant diversity and adaptation to different climate, assess vulnerability to future climate and assess mitigation strategy.

We seek independent and motivated candidates with experience in genetics, genomics, next-generation sequencing data, and bioinformatics. A PhD in genetics, bioinformatics, or a related field is required. A background in population genetics and with analysis of large-scale genomic data is needed. An ability to work in collaboration is required. This position is available in end of 2022 or early 2023.

To apply please send 1) a cover letter 2) CV with a list of three references to yves.vigouroux@ird.fr, adeline.barnaud@ird.fr or Olivier.francois@imag.fr

Information about the different positions: yves.vigouroux@ird.fr

Review of applications will begin immediately and continue until the position is filled.

“yves.vigouroux@ird.fr” <yves.vigouroux@ird.fr>

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

UP Slovenia Bioinformatics

The University of Primorska < <https://www.upr.si/#> > is seeking a *post-doc with experience in genomics and bioinformatics*, in the area of whole *genome sequencing*. This position is *full-time (40 hours per week) for 2 years with possibilities for extension.* The successful candidate will mostly be involved in the EU-funded project “Biodiversity Genomic Europe” and in a national project on wildlife genomics.

However, the group they’ll be part of, the Molecular Ecology group at the Department of Biodiversity, uses molecular tools to investigate many different topics and species, from wildlife monitoring to adaptation, and from conservation biology to wildlife management, opening opportunities for additional collaborations.

Your tasks include contribution to:

- the management of research projects, - maintaining and promoting open science practices.

Specific duties may include:

- genomic sampling, - building DNA and RNA libraries, - developing and applying bioinformatic pipelines, - performing population genomic and related analyses, - performing other data science and statistical analyses, - documenting work performed; maintaining databases, - contributing to research papers, - resolving a diverse range of problems with creativity, - teaching, training, and supervising students, - coordinating the work, - planning, establishing, and refining protocols, - preparing reports, - managing grant funds.

Depending on the applicant’s interest, some teaching could be included. 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, - proficiency in UNIX command line and high-performance computing, - script writing skills in at least one language (R, Python or Perl), - experience building population genomic libraries, developing bioinformatic pipelines, and conducting population genomics analyses is preferred but not required, - exceptional organizational skills and strong ability to accomplish

tasks independently, - willingness to supervise graduation/master theses, and to promote young scientists, - excellent spoken and written English.

We offer:

- The advertised position is for an initial period of 2 years.
- The position will be paid according to the category of the Collective agreement for employees at Slovenian universities. - We offer a collaborative, supportive, and interdisciplinary work environment, opportunities to be involved in a wide range of international research projects, opportunities for learning and professional development, and the expectation of co-authorship on scientific manuscripts. - At the end of the 2 years period, pending positive evaluation, the contract could be extended into an Assistant Professorship.

Application instructions:

Interested applicants are requested to send the application in electronic form to stepchange@famnit.upr.si < <http://mailto:stepchange@famnit.upr.si> >, and with “Postdoc in bioinformatics” 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: 15 October, 2022 For additional information or informal inquiries, please contact stepchange@famnit.upr.si < <http://mailto:stepchange@famnit.upr.si> >

PhD Laura Iacolina https://www.researchgate.net/profile/Laura_Iacolina/info <https://lauraiacolina.wordpress.com/> Laura Iacolina <lauraiacolina@gmail.com>

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USouthampton ModellingEvoTransitions

Postdoctoral Senior Research Fellow in Theoretical Biology/Computer Science (1932322FP)

Project: Connectionist Approaches to Modelling Evolutionary Transitions in Individuality (evo-ego)

Application Deadline: 13th Sept 2022 (hopefully extended to Sept 25th) Salary: 40,931 to 46,047 GBP*

We welcome applications for a postdoctoral researcher to build computational models of evolutionary processes, at the lab of Richard Watson at the University of Southampton. The position is available, for a duration of up to 19 mths, starting Oct 2022 or as soon as possible thereafter.

About the project:

This project (funded by the John Templeton Foundation) investigates the evolutionary transitions in individuality, such as the transition from unicellular life to multicellular organisms. The approach will build on recent developments unifying evolutionary theory with learning theory (Watson & Szathmari, 2016, *TREE*, 31(2), 147-157). This work converts (connectionist) models of distributed learning and cognition, already well-developed in computer science/neural networks/machine learning, to deepen and expand our understanding of natural evolution. The candidate will use computational modelling to explore the evolution of network structure and its effect on ecological/developmental organisation and evolutionary capabilities. This will characterise the type of relationships and organisation that is needed to convert a collection of (previously) independent evolutionary individuals into a new level of organisation that functions and evolves at a new, higher level of individuality. In particular, we will explore the hypothesis that the conditions that enable evolution to exhibit a transition in individuality are predicted by the conditions that enable learning systems to induce and exploit deep models, a.k.a. deep learning.

The successful candidate, based in Southampton, will also work with co-investigators Chris Buckley (University of Sussex, UK.) and Mike Levin (Tufts University, USA). As a part of this team, the candidate will also work closely with PhDs and another post-doc dedicated to this project and on related projects.

The candidate:

Appropriate skill sets include computational modelling of gene-regulation networks, ecological dynamics/community network modelling, theoretical population genetics, mathematical modelling of biological evolution, social evolution theory, adaptive dynamics, evolutionary game theory, computational individual-based modelling, complex adaptive systems, algorithmic/functional modelling of evolutionary adaptation.

Applicants must be capable of building bridges that link between evolutionary biology and computer science and have a PhD or equivalent professional qualifications and experience in either evolutionary theory (e.g. adaptation, selection, evolutionary systems biology, mathematical biology, social evolution theory), with

strong mathematical skills and experience in simulation modelling/programming, OR a PhD in computer science/maths/physics (e.g. algorithms, machine learning, complex systems/dynamical systems modelling, optimisation) with strong knowledge/experience of working on applications in theoretical evolutionary biology.

Applications must include a CV, publications list, the names of three referees and a covering letter explaining your current interests and relevant background.

Equality, diversity and Inclusion is central to the ethos in the School of Electronics and Computer Science. We particularly encourage women, Black, Asian and minority ethnic, LGBT and disabled applicants to apply for this position. We are committed to improving equality for women in science and have been successful in achieving an Athena SWAN bronze award in April 2020. We give full consideration to applicants that wish to work flexibly including part-time and due consideration will be given to applicants who have taken a career break. The University has a generous maternity policy*, onsite childcare facilities

The University of Southampton is in the top 1% of world universities and in the top 10 of the UK's research-intensive universities. The University of Southampton is committed to sustainability and being a globally responsible university and has recently been awarded the Platinum EcoAward. Our vision is to embed the principles of sustainability into all aspects of our individual and collective work, integrating sustainable development into our business planning, policy-making, and professional activities. This commits all of our staff and students to take responsibility for managing their activities to minimise harm to the environment, whether this through switching off non-essential electrical equipment or using the recycling facilities.

*subject to qualifying criteria

Links – Further information: <https://www.richardawatson.com/positions-open> Advert:

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USussex InsectEcologyBehaviour

Research Fellow in Insect Ecology and Behaviour Ref 9437

School/department: School of Life Sciences Hours: Full time or part time hours considered up to a maximum of 1 FTE. Requests for flexible working options will be considered (subject to business need). Contract: fixed term for 3 years Reference: 9437 Salary: starting at 35,333 to 42,155 per annum, pro rata if part time Placed on: 01 September 2022 Closing date: 29 September 2022. Applications must be received by midnight of the closing date. Expected Interview date: TBC Expected start date: 01 March 2023

Job description

We wish to appoint a postdoctoral research fellow to work on the NERC-funded project “Living at the edge: causes and consequences of individual variation in a changing world”.

The project studies the effects of landscape fragmentation on behaviour, physiology, morphology, life history and related traits (and their covariation) in a forest-living ground beetle species using individuals living at an edge of a habitat and those at a core. The project combines both experimental and correlative approaches and applies a wide range of methods in the field and laboratory. These range from enclosure experiments, translocations, radio- telemetry, and behavioural and physiological assays.

You will be supervised by Dr Wiebke Schuett (Project Lead) and Prof Jeremy Niven (both School of Life Sciences) and will work closely with other members of the research team, including a technician and a PhD student.

Candidates must have a PhD in animal behaviour, ecology or an allied biological science. We expect a highly motivated, talented, well-organised and meticulous candidate with strong skills in quantitative analysis, experience in behavioural observations and/or experimental design and excellent team-working ability. The candidate will have a background and demonstrable interest in one or more of behavioural ecology, insect physiology, evolution and/or ecology. Previous experience in collecting data in the field, physiological and/or parent-age analyses, advanced statistical modelling using R,

working with insects and/or on animal personality, and handling large data sets is advantageous. Holding a driving license is desirable.

Potential candidates are strongly encouraged to make informal contact with Dr Wiebke Schuett (w.schuett@sussex.ac.uk; she/her) before applying.

Applications should be accompanied by a full CV, a cover letter including a statement of research interests and aspirations (not more than 4 pages), and the names of three academic referees.

For full details and how to apply see <https://www.sussex.ac.uk/about/jobs/research-fell-in-insect-ecol-and-behav-ref-9437> The University of Sussex values the diversity of its staff and students and we welcome applicants from all backgrounds. You can find out more about our values and our EDI Strategy, Inclusive Sussex, on our webpages.

Download job description and person specification Ref 9437 [PDF 215.17KB] <https://www.sussex.ac.uk/about/documents/9437-fps.pdf> Wiebke Schuett <W.Schuett@sussex.ac.uk>

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UWashington EvolutionSocialBehaviorAging

POSITION DESCRIPTION: Postdoctoral position in social behavior and aging in *Drosophila*

A postdoctoral position is available immediately (with flexible start date), in the Promislow lab at the University of Washington. We are looking for a postdoctoral researcher to join collaborative effort on the relationship between aging, social behavior and feeding behavior.

Our goal is to understand how age affects social behavior and how these behaviors, in turn, affect aging. Using the fruit fly, *Drosophila melanogaster*, as a powerful model system, we take advantage of new technology developed by our collaborator, Scott Pletcher (U Michigan) to obtain ultra-high-resolution longitudinal behavioral data and interrogate the neural circuits that drive them. We will develop and implement computational, genetic, behavioral and physiological methods to answer fundamental questions about the determinants of behavioral, social, and cognitive aging, and explore strategies that promote favorable socio-environmental interactions or

that ameliorate or block adverse ones.

This project, an NIH-funded collaboration between three labs (Daniel Promislow, Scott Pletcher and Ali Shojaie), and will include opportunities to pursue interests in social behavior, aging, systems biology, genetics, and/or high-dimensional statistical models

We are seeking someone with a PhD and expertise in behavior, ecology, evolution, aging, and/or systems biology. The ability to work extremely well in a team is essential.

RESPONSIBILITIES:

The Postdoctoral Researcher will:

- Design and carry out fly experiments under the supervision of Dr. Promislow
- Work with a statistical collaborator on analysis of high-dimensional longitudinal behavioral data.
- Write up and publish results.
- Contribute to regular lab meetings and one-on-one discussions about project design and progress.

REQUIREMENTS:

PhD in ecology, evolution, behavior, genomics, computational biology, systems biology, or a related field.

Other required qualifications include:

- Skilled in the use of the R or Python statistical environment
- Strong organizational skills.
- Ability to learn and integrate new analysis methods.
- Excellent oral and written communication skills.
- Ability and enthusiasm for working independently, and also collaboratively as part of a team

DESIRED:

- Understanding of the statistical approaches and nuances of high-dimensional data analysis
- Practical understanding of the biology of aging.
- Excellent mentoring skills and desire to work with undergraduates

Interested candidates should send an email with a PDF copy of CV and a brief statement of research experience and interests, and names of three referees to Daniel Promislow at promislo@uw.edu <<mailto:promislo@uw.edu>> no later than Oct 11, 2022.

The Promislow Lab is committed to creating a diverse, respectful environment where people of all backgrounds are welcome and can thrive.

The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.

Daniel Promislow <promislo@uw.edu>

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

UWolverhampton EvolutionMelanesianDiversity

36 month Postdoctoral Research Associate in Origins of Western Melanesian Diversity

Location: University of Wolverhampton, UK Deadline: Sunday 11th September Salary: £36,382 - 43,434 pa

Western Melanesia-including New Guinea-sits at the crossroads of Asia and Australia and is one of the most interesting, puzzling, and understudied hyper diverse regions on Earth. Clarifying how tectonic movements have sundered or joined different Melanesian landforms in the past several million years is key to understanding the origins of this biotic diversity. The Postdoctoral Research Associate will be a major participant in helping to investigate how the diversity and evolutionary history of the five major geological landforms that comprise most of western Melanesia have impacted evolution of that region's biota and to identify those ancient insular landmasses critical in generating the lineages that colonised and radiated across New Guinea, Australia, and/or insular Asia. The project will investigate evolutionary relationships among the region's reptiles and amphibians to address these questions. The research will help to replace the outdated, unidirectional "out-of-New-Guinea" model for origins of Pacific biodiversity with a more dynamic and nuanced understanding that ancient, yet under-appreciated, land areas in Melanesia have long been important in shaping biotic evolution in the broader region. The project will use a combination of traditional sequencing methods alongside sequencing of ultra-conserved elements (or similar) from fresh and historic museum samples (aka archival DNA) and analyse these data with respect to new geological models to be generated by a project partner.

We are seeking to appoint a postdoctoral research as-

sociate to study the Origins of Western Melanesian Herpetological Diversity on a 36 month, fixed-term contract. This project is funded by a joint NERC-NSF grant to Dr Simon Maddock (University of Wolverhampton, UK) and Dr Fred Kraus (University of Michigan, USA). The position will be based in the School of Sciences at the University of Wolverhampton, UK; with some time spent in the USA and Papua New Guinea. The successful applicant will possess the skills and knowledge to contribute to research, dissemination, and knowledge exchange as part of the project.

You will have completed a PhD in biological sciences or an equivalent subject, have experience of laboratory and phylogenetic methods, and have disseminated research in international scientific journals and conferences. During your tenure, you will be responsible for collecting tissue samples in Papua New Guinea (particularly on Bougainville, Solomon Island Archipelago), generating sequence data (Sanger and sequence capture), analysing data, disseminating research, and co-supervising undergraduate and postgraduate students. Good communication and organisational skills are essential attributes.

For more details and to apply please see <https://jobs.wlv.ac.uk/vacancy/postdoctoral-research-associate-in-origins-of-western-melanesian-diversity-496367.html> For an informal discussion about the post please contact Simon Maddock (s.maddock@wlv.ac.uk).

“Maddock, Simon” <S.Maddock@wlv.ac.uk>

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WashingtonU Missouri Biodiversity

The Living Earth Collaborative, a partnership between Washington University, the Missouri Botanical Garden and the Saint Louis Zoo, was established to advance knowledge and protection of the world’s biodiversity by supporting collaborative research and conservation efforts involving individuals from the three partner and other Saint Louis institutions. See <https://livingearthcollaborative.wustl.edu/> for more information on the Collaborative including a list of recently funded projects and previous cohorts of postdoctoral fellows. As part of this effort, the Collaborative is pleased to announce the availability of four postdoctoral fellowships in the area of biodiversity research and conservation.

Fellowships will be two years long, subject to review after the first year, with a starting date beginning June 1 - September 1, 2023. Salary will be \$57,000 plus benefits, in addition to \$6,000 per year for research support.

LEC Postdoctoral Fellows will be an essential part of the Living Earth Collaborative and are expected to develop a research or conservation program that engages with multiple members of the Living Earth Collaborative Community. Projects can be in any area related to biodiversity research or conservation including but not limited to: behavior, conservation, conservation veterinary medicine, ecology, economics, education, environmental justice, evolution, One Health, and public policy. Projects that involve LEC Biodiversity Fellows (<https://livingearthcollaborative.wustl.edu/about-us/researchers/>) from at least two of the partner institutions, one partner institution and Saint Louis University, or two departments at Washington University are particularly encouraged. Some possible project areas are available at <https://livingearthcollaborative.wustl.edu/post-doc-projects/>, but applicants are welcome to develop projects in other areas (in collaboration with LEC mentors). Fellows are expected to be an integral part of the Living Earth Collaborative participating in and organizing events and interacting with the diverse LEC community. Applicants are strongly encouraged to contact prospective mentors prior to application and where appropriate, to work with mentors to develop a proposal.

To apply: Applicants should submit, as a single file, a cover letter, a CV, a description of previous research, conservation, and professional accomplishments (ca. 2 pages), and a description of proposed research/conservation activities (ca. 2 pages), including identification of mentors, who must be LEC Biodiversity Fellows. Postdocs are expected to be based in Saint Louis and must have been awarded a PhD, DVM or comparable degree by the beginning of their appointment. International applicants are encouraged. Documents should be uploaded to <https://jobs.wustl.edu/specifying> Job Requisition JR69499. Applicants should also have three letters of recommendation sent to livingearth@wustl.edu. Review of applications will begin December 1st and continue until the positions are filled.

Washington University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, sexual orientation, gender identity or expression, national origin, genetic information, disability, or protected veteran status.

Questions should be directed to: livingearth@wustl.edu

“Carlen, Elizabeth” <carlen.e@wustl.edu>

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WesternU PinePopulationGenomics

Postdoctoral Position in Pine Population Genomics

https://grad.uwo.ca/postdoctoral_services/western_opportunities/index.html An exciting postdoctoral opportunity is available to join the TRIA-For team to study how the genetics of lodgepole and jack pine influences the spread of mountain pine beetle, based in the Coltman lab in the Biology Department at Western University (<https://www.uwo.ca/biology/>) in London, Ontario, Canada; and also working closely with the Cullingham lab in the Biology Department at Carleton University (<https://carleton.ca/biology/people/catherine-cullingham/>). TRIA-For is a team of researchers using ecology, physiology and genomics to study the mountain pine beetle system (<https://genomecanada.ca/project/tria-transformative-risk-assessment-and-forest-resilience-using-genomic-tools-mountain-pine-beetle/>). This position will lead landscape-scale population genomic analysis of jack pine to determine whether adaptive variation has the potential to affect spread-risk. The candidate will conduct range-wide analyses of jack pine to identify spatial variation in putatively adaptive alleles that may relate to host quality using exome-capture to identify variants throughout the genome of jack pine. The candidate will also extend our analyses to other pine species important to eastern North America from both economic and cultural perspectives.

The ideal candidate will have a Ph.D. in population genetics/genomics, phylogenetics/genomics, molecular ecology and/or related fields, fluency in written and spoken English, computational proficiency with bioinformatics, including command-line computing. Familiarity with GIS and spatial or landscape genetic analyses, and/or a background in quantitative genetics, are also assets. The candidate should be able to work independently yet also function as an effective member of a large collaborative team. Canadian citizenship or permanent residents will be given preference.

The Department of Biology is a thriving and diverse academic unit, where we study living systems at scales ranging from the level of genes to entire ecosystems. Western University is one of Canada's top research-intensive universities and ranked frequently among Canada's Top 100 Employers. Located midway between Toronto and Detroit and within short driving distances from the Great Lakes, London is known as the "Forest City" and home to "Canada's most beautiful university campus". It is also considered Southwestern Ontario's cultural and educational hub (please also refer to <http://www.startlondoncanada.com/> and <https://www.londontourism.ca/>).

To apply please submit a cover letter, CV, and the names and email addresses of three references in a single PDF to David Coltman (dcoltman@uwo.ca).

The salary will be commensurate with experience, but competitive with current scholarships (~\$45 000 CDN) and is available for one year with the possibility of extension. Review of applications will begin immediately, and the position will remain open until filled.

David Coltman <dcoltman@uwo.ca>

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Crete ComputationalMolecularEvolution 2023

Dear Community,

Applications for our 2023 version of the summer school on Computational Evolution in Crete are now open and will close on November 1st 2022.

<https://meetings.embo.org/event/23-comp-evolution>
Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Affiliated Scientist, Evolutionary Genetics and Paleogenomics (EGP) lab, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas

www.exelixis-lab.org Alexandros Stamatakis
<alexandros.stamatakis@gmail.com>

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Online ConservationGIS Sep15-16

Dear Colleagues,

On behalf of the Organizing and Scientific Committees, I inform you that, starting from this afternoon, Thursday, September 15th at 14.00 PM CEST and until tomorrow, Friday, September 16th at 16.00 CEST, it will be possible to join online the three sessions of the Geographic Information System data for Wildlife Conservation WIGGIS.

Please, visit the WIGGIS Workshop website (<https://wiggis.eu/>) for detailed information.

Best regards,

Licia Colli

Dott.ssa Licia Colli Ricercatore Facoltà di Scienze Agrarie, Alimentari e Ambientali / DIANA Dipartimento di Scienze Animali, della Nutrizione e degli Alimenti / BioDNA Centro di ricerca sulla Biodiversità

e sul DNA Antico licia.colli@unicatt.it tel +39 0523 599 481 fax +39 0523 599 276 skype liquid-diamond

Università Cattolica del Sacro Cuore via Emilia Parmense 84, 29122 Piacenza (PC), Italy www.unicatt.it
"Colli Licia (licia.colli)" <licia.colli@unicatt.it>

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Online GenomeAnnotation Oct24-27

The Computational Biology Core at the University of Connecticut's Institute for Systems Genomics is offering a workshop on structural and functional genome annotation.

The workshop will cover basic concepts and walk through several strategies on a high performance computing cluster.

The goal is to familiarize attendees with the basic concepts and details of computational approaches for genome annotation. All code required to complete the full analysis will be provided in a public github repository, and session recordings will be available to all participants after the workshop.

The workshop will take place over 4 days for 3-4 hours each day.

Dates: October 24-27 (4 days) Time: October 27: 8:30am-12pm (Eastern) October 25-27: 9.00am - 12.00pm Location: Online Cost: \$350/\$483USD for UConn affiliated/External attendees.

Workshop schedule: Day 1: Introduction to Linux and high performance computing. Day 2: Introduction to high throughput sequencing, genome assembly validation, file format basics, and repeats. Day 3: Alignments, RNA-Seq based annotation with BRAKER2, and functional annotation; Day 4: MAKER annotation, long read annotation with BRAKER2, and evaluation.

Registration:

To register, please follow this link: <https://forms.gle/-daCLSmFtDhJQ7ndQA> Other upcoming workshops: Virtual single cell RNA-seq. Nov 14-17

Workshop FAQ:

Who should attend?

Anyone who wants to learn the fundamentals of genome annotation.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of the workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own computer and to install a few applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350/\$483USD for UConn affiliates/External attendees.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Zoom, and will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is “first-come, first-served.” There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Do you offer scholarships or tuition waivers?

Yes. For each workshop we offer waivers to up to two attendees without other funding sources. Preference will be given to students from primarily undergraduate institutions, from countries classified by the World Bank as low or middle-income, and those from underrepresented groups. Applicants for waivers may submit a one paragraph justification to cbcsupport@uconn.edu.

Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

For our other currently scheduled workshops, see here: <https://bioinformatics.uconn.edu/cbc-workshops/>
“Reid, Noah” <noah.reid@uconn.edu>

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ing@mcmaster.ca)

Online GettingTheMostOutOfR Oct3-6

Dear all,

last days to register for the 2nd edition of the Physalia course “Getting the most out of R”

Course website: (<https://www.physalia-courses.org/-courses-workshops/gmr/>)

Dates: Online, 3-6 October 2022

Many scientists start using R for very specific purposes with little training in computer science, data organization, and software development. Even advanced users may bypass important tools and abstractions which can ultimately lead to bad habits and wasting time. Get the most out of R by exploring topics that usually fall outside of data analysis and visualization curricula. This course will cover blind spots in existing materials by working through the intermediate steps in various pairs of problems and solutions that often get overlooked because of assumed knowledge.

Complete 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/Physiacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

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Online Reproducible Analysis With R Oct31-Nov3

Dear all,

there are the last seats available for the 2nd edition of the course Reproducible Analysis With R course Dates: October 31st - November 3rd Course website: (<https://www.physalia-courses.org/courses-workshops/-r-reproducibility/>) You will learn how to organize a project to speed up collaboration and maximize its reproducibility by leveraging existing tools in the R ecosystem –such as RMarkdown, renv, and others–, version control and working environments.

By the end of this course, participants will be able to:
- Create an R project that outputs a reproducible document.
- Create and manage a reproducible environment that specifies packages and packages versions.
- Track changes with git.
- Collaborate with others and themselves with GitHub.
- Create and publish containers.

Complete list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please feel free to contact us: info@physalia-courses.org Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

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Online RNASeq Analysis Oct31-Dec5

Dear evolutionary biology community,

RNA-seq experiments have become ubiquitous in biological research, yet the downstream data analysis can feel a bit like a black box. As a result, we may over- or mis-interpret our results, or simply fail to draw all the scientific insight that we could be drawing from our data.

This is an intense online course, running from the 31st of October till the 5th of December 2022. We will be meeting every Monday and Thursday from 2pm till 4.30 pm, Lisbon time. In addition, there will be a small weekly assignment to do, with individualised written feedback each time, so you always know where your strengths and weaknesses lie. We will focus less on knowing all the newest and coolest tools, and more on achieving an intuitive understanding of the statistical concepts underlying the analyses.

Like at all Mondego Science courses, we will follow these principles:

1. Understanding beats memorisation - you should never perform an analysis that you don't fully understand conceptually.
2. Intuition beats equations - we will keep the maths to a bare minimum. There are no pre-requisites in terms of maths, statistics or programming skills.
3. Practice beats theory - we will immediately apply everything we learn to real data sets.
4. Working together beats working alone - as much as possible, we will perform practical exercises in teams.

You should take this course if you

- will soon have to perform gene expression analysis for the first time and want to go in with a strong conceptual basis.
- already analyse RNA-seq data but feel like you insufficiently understand the statistical concepts underlying the analyses.
- collaborate with bioinformaticians who analyse your RNA-seq data and want to be able to speak to them in their language.

15 places are available on a first-come-first-served basis. Registration closes on Oct 15.

For more information and to sign up, go to <https://www.mondegoscience.com/courses/analysis-of-rna-seq-data-online> . Follow Mondego Science on social media:

<https://www.facebook.com/mondegoscience> <https://www.instagram.com/mondegoscience/> If you have any questions, feel free to drop me a line on rosina@mondegoscience.com.

Rosina Savisaar <rosinasavisaar@gmail.com>

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Online SeascapeGenomicsInR Oct31-Nov4

Dear all,

there are the last few seats available for the 3rd edition of Physalia “Seascape Genomics in R” course, which will be held online from October 31st to November 4th.

Course website: (<https://www.physalia-courses.org/courses-workshops/course70/>)

Instructors: Dr. Laura Benestan (CEFE-CNRS, France) and Dr. Oliver Selmoni (Carnegie Institution for Science, USA)

Complete 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

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Online SexChromosomeEvolution Jan23-27

Dear all,

registration is now open for the 2nd edition of the Sex Chromosome Evolution course!

Dates: online, 23rd - 27th of January

Course website: <https://www.physalia-courses.org/courses-workshops/sexchr/> Instructors: Dr. Aline Muyle (CNRS, France) and Dr. Agnieszka Lipinska (Max Planck Institute, Germany)

This course will introduce attendees to how the genomic

and transcriptomic data can be used to detect homomorphic/heteromorphic sex chromosomes and inform the cause and consequences of sex chromosome differentiation. The instructors will guide students through study design, genomic/transcriptomic data collection methods, handling of raw genomic/transcriptomic data, and methods to identify sex chromosomes. Then, we will work through a suite of analyses looking at the molecular evolution of sex chromosomes, particularly the timing and patterns of recombination suppression, gene gain/loss, gene expression differentiation, and genome divergence. We will provide background on the theory and hands-on exercises, running analysis, and interpreting results. After completing the course, the participants should be able to manipulate, visualize and interpret genomic data and patterns of sex chromosome evolution.

Complete list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please feel free to contact us:info@physalia-courses.org Best regards,Carlo

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Online TropicalConservationGenetics Sep12-23

LAST CALL

Registration ends this Friday Sept 2

We are happy to announce Conservation Genetics in the Tropics 2022, which will be all online this year.

Many conservation genetics tools have been developed for use in temperate other high latitude habitats, and so not all of these tools translate to the tropics. Tropical habitats share some features which complicate the application of some conservation genetics tools which are heavily relied upon in higher latitudes, and also share some basic questions and problems that are less of an issue in higher latitudes or other, better studies and/ or less diverse habitats.

This course will discuss practical issues, genetic and genomic theory, tools and analyses as applied to issues relevant to conservation in the tropics. Some basic questions of conservation importance include describing species diversity, determining species distributions, characterizing the basic biology of species, and understanding demographic history and population size and structure. Underlying biogeographic histories that have shaped communities, and the biotic interactions within those communities are also of fundamental importance. There are online computer practicals in parallel with the lectures, seminars and discussions.

This course is designed with students and practitioners of Conservation Biology or Conservation Genetics in the tropical regions of America, Africa and Asia in mind.

This course will take place September 12 - 23 entirely online, hosted by the Estacion Biologica de Donana (www.ebd.csic.es). In order to best accommodate people across many time zones, this course will consist of a combination of pre-recorded lectures and seminars, and synchronous discussions and practicals. The course will be held in English.

For more information, check out the website: <http://consevol.org/consgentropicscourse.html> Jennifer Leonard Conservation and Evolutionary Genetics Group Estacion Biologica de Donana Avd. Americo Vespucio 26 41092 Sevilla, Spain

www.consevol.org Jennifer Leonard
<jleonard@ebd.csic.es>

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formatics on how to filter, infer damage patterns and authenticate next-generation-sequencing data obtained from archaeological specimens, as well as on population genomics.

IMPORTANT DATES Deadline for applications: OCTOBER 6, 2022

Notification of acceptance: OCTOBER 12, 2022

Course dates: NOVEMBER 14-18, 2022

Full details, including the course programme and instructors, application form, selection criteria and requirements, can be found here: <https://www.biodiv.pt/en/events/the-archaeogenomics-of-domestic-animals/> This course is aimed at Ph.D. students, postdocs and other researchers in the fields of evolutionary biology, zooarchaeology and archaeology with a specific interest in Archaeogenomics.

catarinaginja@cibio.up.pt

Catarina Ginja, PhD Researcher, Team Leader ARCHGEN < <https://cibio.up.pt/en/groups/archaeogenetics-archgen/> > Ciência ID: 8511-380F-548D < <https://www.cienciavita.pt/portal/8511-380F-548D> > ORCID ID: 0000-0003-2278-7089 < <https://orcid.org/my-orcid> >

1. CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, InBIO Laboratório Associado, Campus de Vairao, Universidade do Porto, 4485-661 Vairao, Portugal

2. BIOPOLIS Program in Genomics, Biodiversity and Land Planning, CIBIO, Campus de Vairao, 4485-661 Vairao, Portugal

Catarina Ginja <catarinaginja@gmail.com>

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Porto Portugal

DomesticAnimalArchaeogenomics

Nov14-18

THE ARCHAEOGENOMICS OF DOMESTIC ANIMALS BIOPOLIS | CIBIO-InBIO | University of Porto

Diachronic genetic studies are required in order to infer the origins and evolutionary trajectories of domestic animals. The objective of this course is to provide an overview of the most recent Archaeogenomics findings on the origin and evolution of domestic animals. It will cover some of the recommended bioinformatics tools and methods for the study of ancient DNA genomics data. There will be hands-on sessions, including bioin-

Vienna ExperimentalEvolution

Dec5-9

LAST CALL FOR PRACTICAL SESSIONS

Last chance to apply; applications for the practicals of this course close this Friday, September 30th.

The Vienna Graduate School of Population Genetics is now accepting applications for the course “Experimental evolution: bringing theory and practice together” at the University of Veterinary Medicine in Vienna, *December

5-9, 2022.*

Experimental evolution is extensively used to address questions of evolutionary biology by exposing evolving populations to different environmental conditions. It offers the opportunity to replicate experiments and test for convergent outcomes. With the recent drop in DNA sequencing cost and the advance in sequencing technologies, the combination of experimental evolution with next-generation sequencing of pools of individuals (Evolve & Resequence) has become a state-of-the-art method to link phenotypic responses to genetic changes. Although the availability of replicated time series data is one key advantage of E&R, analysing such data sets is still in its infancy. This course will introduce the participants to several new approaches for the analysis of genomic time series data, covering the latest software tools as well as required statistical and computational skills.

The course is targeted toward researchers interested in experimental evolution combined with NGS. It will cover the design of experimental evolution studies as well as the analysis of Pool-Seq time series data. The course aims to introduce participants to:

- State-of-the-art software packages - Modelling of neutral data - Identifying selected regions - Haplotypes reconstruction from time-series data - Estimating selection coefficients - Calling transposable elements in time series data - Inferring selection in transcriptomics data

Morning lectures by internationally renowned faculty will be followed by computer practicals on the analysis of experimental evolution data in the afternoon.

Speakers:

- *Christian Schlötterer* (Vetmeduni Vienna, AT) - *Henrique Teotónio* (IBENS, FR) - *Paul Schmidt* (University of Pennsylvania, US) - *Ron Bassar* (Auburn University, US) - *Megan Behringer* (Vanderbilt University, US)

Call for participants: applications are open until the end of September 2022.

The course is free but will be number-restricted for the practical sessions (hands-on computer lab). Additional seats will be available for attending the lectures only. Students and researchers are invited to apply by submitting a single .pdf file containing 1) a short CV, 2) a motivation letter and a statement of computer skills to experimental.evolution2022@gmail.com by *September 30, 2022*. Confidence in working with Unix command line, as well as R, is strongly recommended for the practicals.

If you wish to attend the lectures, only, please sign up by completing this form: <https://forms.gle/RTh9bkwenqFZovFUA>, as space is limited!

Participants are expected to arrange their own accommodation.

Further information and updates available at: <https://www.popgen-vienna.at/training/-experimental-evolution-course/> PopGen Vienna <popgen.vienna@gmail.com>

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Instructions

Instructions: To be added to the EvoDir 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 notification of the availability of a monthly review pdf file.

To be removed from the EvoDir 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 formatted) the message will be sent 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 preformatting 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.