
E v o l D i r

January 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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Bainbridge WA SelfishEvolution Jul24-27

AGA2022 President's Symposium - Selfish Evolution:
Mechanisms & Consequences of Genetic Conflict

Save the Date! President Lila Fishman will hold the 2022 Symposium July 24-27, 2022, at the beautiful venue of the IslandWood < <https://islandwood.org/outdoor-meeting-and-retreat-venue/> > campus on Bainbridge Island near Seattle, Washington (with virtual options for speakers and attendees). The Symposium will include the Key Lecture plus two days of invited talks, panels, and poster sessions on topics spanning the field of genetic conflict and selfish evolution.

AGA Symposia are small meetings that provide excellent opportunities for cross-stage interaction, and the American Genetic Association is committed to supporting early-stage attendees. Stay tuned for more details in the New Year!

<https://www.theaga.org/index.htm> Anjanette Baker
<theaga@theaga.org>

Online Adaptation Dec8

Hi all,

At the final CIGENE seminar of 2021, Felicity Jones, Max Planck Institute for Developmental Biology, will present:

Finding the mutations and molecular mechanisms underlying adaptation in naturally evolving populations.

Abstract: The genome contains an organism's complete set of instructions for development, survival and reproduction. "Decoding" these instructions remains one of the biggest challenges in biology with enormous implications for medicine, agriculture, and conservation. Leveraging the unique advantages of the threespine stickleback fish system, I'll describe the approaches we've been using to identify the molecular basis and common molecular mechanisms underlying gene regulation, trait variation, physiological and disease phenotypes and survival in different marine and freshwater environments. Combining diverse genomic, transcriptomic and epigenomic datasets I'll discuss the importance of cis-regulation of the non-coding regulatory genome as mechanisms underlying divergent adaptation to different habitats.

Time: Wednesday, December 8th, 12:00-13:00 CET - Please save the date in your calendar!

Place: This will be an online seminar: Click here for access to the Zoom seminar. < <https://nmbu.zoom.us/j/67064421833> >

For more information, check out the seminar website: <https://cigene.no/cigene-seminar-series/> Sincerely,

Marie — looking for a postdoc!!! <https://sites.google.com/view/saitou-lab> Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences

Marie Saitou <marie.saitou@nmbu.no>

SMBE 2022 Announcement

Dear Colleagues,

Regretfully, due to the ongoing uncertainties surrounding the COVID19 pandemic, the Auckland Local Organizing Committee and SMBE Council have made the very difficult decision to cancel the planned in-person SMBE 2022 meeting in Auckland. SMBE Council is very grateful to the LOC for all of their tremendous efforts to organize this meeting.

Despite the disappointing news, we are very excited to announce plans for SMBE Everywhere in 2022. SMBE Everywhere will consist of a series of 10-12 virtual "Global Symposia" focused on a different topic staggered across the calendar between April 2022 and March 2023 (~1-2 per month). Each Global Symposium (GS) will consist of 1 day of virtual talks, a poster session, and opportunities for live Q & A and discussion. Please stay tuned for further details early in January.

Best Regards, Harmit Malik SMBE President

"Lulu Stader (SMBE admin)"
<smbe.contact@gmail.com>

Stockholm Intl Soc Behavioral Ecology Jul28-Aug2

We are proud to announce that the International Society for Behavioral Ecology Congress will be held in Stockholm, Sweden, July 28 to August 2, 2022. The society and the congress defines behavioral ecology as the study of the fitness consequences of behavior, combining the study of animal behavior with evolutionary biology, population ecology, physiology and molecular biology, with adaptation as the central unifying concept.

Please consult the webpage for more information: <https://www.isbe2022.com/> Registration is not yet open, but you can register your interest in attending, to get notified as soon as it opens. Follow us on Twitter @ISBE2022 for further announcements!

For the organizing committee: Sören Nylin
Sören Nylin Professor i Zoologisk Ekologi/Professor of

Animal Ecology

Department of Zoology Stockholm University S-106 91
Stockholm SWEDEN

Soren.Nylin@zoologi.su.se

UCalifornia SanDiego RECOMB-CG May20-21 CallForPapers

*The 19th RECOMB **Satellite Conference **on *
Comparative Genomics

RECOMB-CG 2022 *University of California at San
Diego, **La Jolla, USA* * May 20-21, 2022*

Paper Submission Deadline: January 21, 2022

The RECOMB-CG satellite conference, founded in 2003, brings together leading researchers in the mathematical, computational and life sciences to discuss cutting edge research in comparative genomics, with an emphasis on computational approaches and novel experimental results. The program includes both invited speakers, contributed talks and poster sessions.

Contributions on any theoretical and/or empirical approach to genome-wide comparison are welcome. Topics of interest include genome evolution, population genomics, genome rearrangements, genomic variation, diversity and dynamics, phylogenomics, comparative tools for genome assembly, comparison of functional networks, gene identification or annotation, cancer evolutionary genomics, comparative epigenomics, paleogenomics, epidemiology and related areas. We encourage submissions that offer new biological findings or otherwise highlight their relevance to biology.

See the <https://recombcg2022.usask.ca/> for more details.

Key Dates

Paper submission deadline: *Friday, Jan. 21, 2022*
Resubmission of revisions on submitted papers: Monday, Jan. 24, 2022
Author notification for papers: Monday, Feb. 21, 2022
Final camera-ready version due: Friday, Mar. 4, 2022

Poster submission deadline: Friday, Mar. 25, 2022
Author notification for posters: Monday, Apr. 4, 2022

Registration open: Tuesday, Feb. 1, 2022
Early registration ends: Wednesday, Apr. 20, 2022

Conference starts: Friday, May 20, 2022
 Conference ends: Saturday, May 21, 2022

Submission Guidelines

Submitted papers must be within 15 pages in the LNBI format (<http://www.springer.com/us/computer-science/lncs/conference-proceedings-guidelines>), excluding references, with optionally a clearly marked appendix containing supplementary material made available to the reviewers. All submissions must be made online, through the EasyChair submission system, at the following address:

<https://easychair.org/my/conference?conf=recombcg2022> Authors need to register on that

web site before submitting. A standard PDF file must be received by midnight on *Friday, January 21, 2022* (any time zone) in order for a submission to be considered. Re-submission of already submitted papers will be possible until midnight Monday, January 24, 2022 (any time zone).

RECOMB-CG proceedings will be published in LNBI. Selected papers will be invited to publish instead (with fees) in a special issue of a journal (under negotiation with Genes, Frontiers in Genetics, Journal of Bioinformatics and Computational Biology and other journals), with a short abstract in the proceedings.

RECOMB Comparative Genomics
 <recombcg@gmail.com>

GradStudentPositions

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BangorU AmphibianDiseaseEvolution

We are seeking a PhD student to work at the interface of amphibian disease ecology, microbiology, and evolutionary ecology.

The lab of Dr. Amy Ellison is offering a PhD studentship to study Chytrid infection dynamics in the poison frog, *Dendrobates tinctorius*. This is an exciting opportunity to work as part of an international team to explore and develop interests and expertise in the dynamics of amphibian disease.

Application deadline: 12 Jan 2022

Project description: Infectious diseases have long been known to be influenced by the biotic, abiotic, and genetic 'environments' under which they occur. Recently, the microbial community that lives within and on an individual has been shown to affect susceptibility to disease. However, because microbiomes are dynamic and affected by both the ecology and genetics of their host, a central goal in disease ecology is to understand how the environment interacts with an organism's ecology and evolutionary history to affect both their microbiome and disease susceptibility.

In this project, based at Bangor University and in collaboration with the Smithsonian National Zoo and Conservation Biology Institute (USA), the student will use a combination of laboratory animal experiments, fieldwork and molecular approaches to investigate the links between ecology, evolution, and the microbiome of the dyeing poison frog (*Dendrobates tinctorius*) on susceptibility to the fungal skin pathogen *Batrachochytrium dendrobatidis* (Bd), considered one of the greatest threats to vertebrate biodiversity around the world.

The project offers a wealth of opportunities for the student to gain experience in molecular biology, evolutionary genetics, microbiology, disease ecology and science communication. The studentship will be based within the Molecular Ecology and Evolution group (meeb.bangor.ac.uk), a world leader in the analyses of molecular data addressing global issues in disease biology and evolutionary genomics. It offers a dynamic and supportive training environment for young scientists. There will be opportunities for the student to work and train with US collaborators and perform international fieldwork (South America) during the project.

Location: The studentship will be held at Bangor University, in Northwest Wales, with opportunities to visit

project partners in the USA and conduct fieldwork at locations in South America. The Molecular Ecology and Evolution group at Bangor (MEEB) is an internationally leading research group that focuses on understanding the diversity and function of both micro- and macro-organisms, including plants, microorganisms and animals throughout terrestrial, aquatic and aerobiological biomes. A central part of our work involves the application of genetics, genomics, transcriptomics and other high-throughput molecular techniques to address fundamental evolutionary and ecological questions relating to the origins, levels, distribution and ecological significance of genetic variation. In MEEB we complement molecular genetic data with detailed ecological, behavioural, physiological, microbiological and environmental data to understand the underlying causes of individual, population or species diversity in time and space.

Funding details. - The competitive studentship is fully funded for 3.5-year. - A tax-free stipend is paid at the standard UKRI rate; pounds 15,609 in 2021/22. - All university fees are paid. - A Research and Training Grant of pounds 8,750 is provided to fund research, conference attendance and networking. Opportunities to bid for additional funding are available. - All Envision projects can be undertaken on either a Full Time or Part Time (minimum of 0.5 FTE) basis.

For additional details on funding and how to apply, please refer to these details of the ENVISION DTP: <https://www.findaphd.com/phds/program/envision-merc-dtp/?i1698p2350> For more information please Contact: Dr. Amy Ellison (a.ellison@bangor.ac.uk) or use the following link: <https://www.findaphd.com/phds/project/you-are-what-you-eat-effects-of-diet-skin-alkaloids-and-the-microbiome-on-batrachochytrium-dendrobatidis-infection-in-the-poison-frog-dendrobates-tinctorius/?p136387> Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg neu Saesneg

You are welcome to contact the University in Welsh or English

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Aaron Comeault <a.comeault@bangor.ac.uk>

BangorU ColdBloodInWarmingWinters

I am seeking applicants for a competitively funded PhD program as part of my new research group at Bangor University in Wales, UK. The successful applicant will be put forward for funding from the Envision Doctoral Training Program (NERC-funded). More details: <https://www.lancaster.ac.uk/-/lec/research/envision/> *About the Project:* Environmental change is causing temperatures to rise across the globe - how this will affect the distribution and abundance of species is therefore an important current focus for ecologists worldwide. An under recognised aspect of climate change is increased overwinter temperatures. While research has focused largely on the impacts of hot periods (i.e. summer) getting hotter, winter temperatures have in fact been rising at a faster rate than summer temperatures over the last century. Ectothermic species such as reptiles are especially vulnerable to projected thermal shifts given their physiological reliance on ambient temperatures. However, reptile responses to climate shifts have received little attention, and existing work has been heavily biased towards the summer active season. Reptiles at temperate latitudes often rely on a temperature-sensitive winter hibernation period. Evidence suggests that milder winters could disrupt hibernation, with lasting carryover effects on phenology, breeding success, and tolerance to stressors. Nevertheless, due to the scarcity of data, how reptiles in temperate regions such as the United Kingdom will respond to rising winter temperatures remains unknown. The student will conduct laboratory-based experiments using an invasive lizard in the UK, the wall lizard (*Podarcis muralis*), in conjunction with wild population monitoring, and collation and analysis of long-term data, to investigate: (1) how increased overwinter temperatures affect wall lizard reproductive success, and hormonal and behavioural responses to stress in captive and wild populations, and (2) how historical patterns of winter-warming have influenced the distribution and phenology of British reptiles to date. This project will involve field and lab-based work, as well as the assembly of novel and exciting datasets from public records. The Amphibian and Reptile Conservation Trust will serve as a CASE partner and will provide further training opportunities.

Eligibility: Applicants should hold a minimum of a

UK Honours Degree at 2:1 level or equivalent in subjects such as Zoology, Animal Behaviour, Conservation Science, or Biology. Past field or laboratory research experience is an advantage but will not be used as an exclusion criteria for shortlisting. International applicants welcome - top-up fees will be waived (i.e. funding will cover all international fees).

Direct any enquiries to me, Dr Kirsty MacLeod (kirstyj-macleod@gmail.com). More info on me and my group at kjmacleod.weebly.com

Kirsty MacLeod <kirstyjmacleod@gmail.com>

ClarkU FungalGenomics

The Tabima lab at Clark University (<https://tabimalab.netlify.app/>) is looking for one Ph.D. student interested in genomics, population genetics, and diversity and molecular systematics of microbial fungal species associated to amphibian gastrointestinal tracts.

We are located at Clark University, one of the most prestigious and historical private liberal arts and research Universities in New England and in the United States. The Department of Biology at Clark University is comprised of great faculty and passionate students who have a commitment to research, teaching, and accomplishing scientific goals in a humane way.

The candidate should have an interest in:

- Fungal biology and mycology - Evolutionary biology and population genetics - Comparative genomics and computational biology - Equity, diversity, and empowerment of underrepresented minorities in STEM

Experience with computational biology or genomics is desirable.

The position will have guaranteed tuition remission and a stipend for five years. Teaching assistantships will be provided.

If interested, please contact me at jtabima@clarku.edu.

For more information about Clark's Biology Ph. D. Program and requirements to apply follows his link: <https://www.clarku.edu/departments/biology/phd-program/> Javier Tabima Restrepo <JTabima@clarku.edu>

DurhamU AncientInsectPlantDNA

We are looking for PhD candidates to apply to two IAPETUS2 projects as part of the Doctoral Training Programme of the Natural Environment Research Council.

* The first project is entitled “Of insects and men: Biomolecular study of fossil insects to trace human movement, trade and environmental impact in the past”, and will be conducted under the Direction of Dr. Eva Fernandez-Dominguez (Durham University), Dr. Matthew Tinsley (University of Stirling) and Dr. Darren Grocke (Durham University) in collaboration with Dr. Eva Panagiotakopulu (Univ. Edinburgh).

We are looking for candidates with the following qualities and backgrounds: - A strong academic background: a first or 2:1 undergraduate degree, or relevant comparable experience in Genetics, Biochemistry or Scientific Archaeology - Potential to carry out excellent research - Previous experience in insect identification, insect genetic analysis or ancient DNA is desirable

You can find more details about the project and how to apply here: <https://www.iapetus2.ac.uk/studentships/-of-insects-and-men-biomolecular-study-of-fossil-insects-to-trace-human-movement-trade-and-environmental-impact-in-the-past/> For enquiries about this project, please contact Dr. Eva Fernandez-Dominguez: eva.fernandez@durham.ac.uk

* The second project is entitled “Time travelling with ancient DNA: revealing past adaptations of plants to changes in atmospheric temperature and CO2 levels”, and will be conducted under the Direction of Dr. Maxim Kapralov in collaboration with Dr. Maarten van Hardenbroek (Newcastle University) and Dr. Eva Fernandez-Dominguez (Durham University).

We are looking for candidates with the following qualities and backgrounds: - A strong academic background: a first or 2:1 undergraduate degree, or relevant comparable experience in Biology, Genetics, Biochemistry or Scientific Archaeology - Potential to carry out excellent research. - Previous experience in ancient DNA is desirable but not necessary.

For enquiries about this project, please email Dr. Maxim Kapralov: Maxim.Kapralov@newcastle.ac.uk You can find more details about the project and how to apply here: <https://www.iapetus2.ac.uk/studentships/time->

[travelling-with-ancient-dna-revealing-past-adaptations-of-plants-to-changes-in-atmospheric-temperature-and-co2-levels-2/](https://www.iapetus2.ac.uk/studentships/-of-insects-and-men-biomolecular-study-of-fossil-insects-to-trace-human-movement-trade-and-environmental-impact-in-the-past/) Deadline for both projects is the 7th of January 2022, 5pm.

Dr. Eva Fernandez-Dominguez Associate Professor in ancient DNA Manager of the ArchaeoDNA Laboratory Dp. Archaeology. Durham University. Dawson Bldg. South Road. Durham DH1 3LE email: eva.fernandez@durham.ac.uk Tf: 01913341141

<https://www.dur.ac.uk/directory/profile/?id=14218> <http://durham.academia.edu/EvaFernandezDominguez> https://www.researchgate.net/profile/Eva_Fernandez_Dominguez Join the aDNA Facebook group!

<https://www.facebook.com/groups/249055928471080/> “FERNANDEZ-DOMINGUEZ, EVA” <eva.fernandez@durham.ac.uk> “FERNANDEZ-DOMINGUEZ, EVA” <eva.fernandez@durham.ac.uk>

GeorgeMasonU SeaTurtleConservationGenetics

A Master’s or PhD position is available to start in Fall 2022 in the lab of Dr. Ylenia Chiari at George Mason University in Fairfax, Virginia. We are seeking a highly motivated prospective graduate student to carry out a project on sea turtle conservation genetics. This project is also in collaboration with Dr. Scott Glaberman (George Mason University), Dr. Margaret Lamont (USGS), and Dr. Miguel Angel Reyes Lopez (Instituto Politécnico Nacional, Mexico).

The Chiari Lab (www.yleniachiarit.it) uses integrative approaches from molecular biology to behavior to computational modeling to study the causes and consequences of morphological and physiological variation in reptiles. The Lab has also a strong focus on conservation genetics/genomics of fish and reptiles.

Successful candidates will have a strong interest in conservation genetics and evolutionary biology. Some background or experience in molecular laboratory techniques is preferred. Knowledge of Spanish is encouraged, but not required. The Chiari Lab is committed to promoting and supporting diversity and a multicultural environment and we encourage underrepresented students to apply.

Full support can be provided through a teaching as-

sistantship. However, the successful candidate is also encouraged to apply for graduate fellowships.

Prospective students should send a short description of their research interests and past research experience and why they are interested in this position along with a resume or CV (including the names of three people who could serve as a reference) to Dr. Ylenia Chiari ychiari@gmu.edu. Selection of candidates will begin immediately.

Information regarding the two potential MS/PhD programs can be found here:

Through ESP:

PhD:

<https://catalog.gmu.edu/colleges-schools/science/-environmental-policy/environmental-science-public-policy-phd/> MS:

<https://catalog.gmu.edu/colleges-schools/science/-environmental-policy/environmental-science-policy-ms/> Through SSB:

PhD:

<https://science.gmu.edu/academics/departments-units/systems-biology/biosciences-phd> MS:

<https://catalog.gmu.edu/colleges-schools/science/-systems-biology/biology-ms/> Ylenia Chiari, PhD

Assistant Professor

P(703) 993-4467 Ychiari@gmu.edu

George Mason University, Department of Biology
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407 Manassas, VA 20110

www.yleniachiarini.it Ylenia Chiari <ychiari@gmu.edu>

Germany InstAvianRes AvianMitoEvolution

The Institute of Avian Research “Vogelwarte Helgoland” is a non-university research institute in the portfolio of the Lower Saxonian Ministry of Science and Cultural Affairs. The Institute members conduct fundamental research on the complex relationships between birds and their environments. The central research foci are bird migration and life history biology. In addition, the Institute houses the Bird Ringing Centre for Northwest Germany.

We are searching for a PhD student (3 years, salary level TV-L E13, 65%)

The successful candidate will work in the team of Prof. Dr. Miriam Liedvogel, and be jointly supervised by Dr. Oscar Vedder (Institute of Avian Research) and Dr. Pablo Salmán (University of Glasgow and University of the Basque Country), and investigate causes and consequences of among- and within-individual variation in mitochondrial function in a captive population of Japanese quail.

The Institute houses a large captive population of Japanese quail with a detailed pedigree. The quail are an excellent model species to investigate causes and consequences of mitochondrial function, because they mate indiscriminately (allowing specific breeding designs), mature rapidly (allowing multi-generational sampling), have a relatively short lifespan (allowing estimation of lifetime performance), and their development rate and reproductive rate can be easily quantified and manipulated. Potential research avenues that can be pursued are the inheritance of mitochondrial traits, inbreeding depression and ageing in mitochondrial function, and their potential to predict individual fitness, but research questions are not fixed and can be tailored to the specific interest of the student.

The main responsibilities of the student will be to:

- Design and carry out (breeding) experiments and collect blood samples, using the quail as a model species.
- Analyse collected samples for mitochondrial function.
- Run statistical analyses on the collected data.
- Publish papers in peer-reviewed scientific journals as a first and co-author.
- Present the work at national and international conferences.

We therefore seek an enthusiastic and dedicated student

with:

- A MSc degree in biology. - A strong interest in studying physiology in an ecological and evolutionary framework.
- Affinity and experience with laboratory analyses. - Experience with statistically analysing data in R. - Excellent oral and written communication skills in English.

Applicants should send a single pdf file via e-mail, containing a statement of motivation, CV, and the names and addresses of two professional referees by 15.01.2022 to poststelle@ifv-vogelwarte.de. Questions regarding the project can be directed to Dr. Oscar Vedder (oscar.vedder@ifv-vogelwarte.de). Interviews (online) are preliminary scheduled for 25.01.2022.

The Institute of Avian Research is an equal opportunity employer, committed to inclusion and diversity and welcomes applications from people from all groups and backgrounds. In addition, the Institute is committed to (i) increase the proportion of women in successful scientific careers (?11 of the Nieders?chsisches Gleichberechtigungsgesetz), (ii) promote the equality of (severely) disabled and non-disabled people, and (iii) provide opportunities for people with a migration background. As such, it especially welcomes applications from female scientists, (severely) disabled scientists and immigrated scientists. In case of equal suitability and qualifications, these applications will be given preference.

“Vedder, Oscar” <oscar.vedder@ifv-vogelwarte.de>

KrugerNationalPark ConservationGenomics

NERC GW4+ DTP Studentship - Impact of toxic metal contamination on freshwater snails in the Kruger National Park (South Africa) using an ecogenomics approach
Project keywords: Metal pollution, freshwater snails, bioindicator species, genomics, epigenetics
Project Background

South Africa is naturally water-scarce with annual rainfall half the global average. Recent years of below-average rainfall have already put tremendous pressure on wildlife and human populations in the region. The demand for water is predicted to outstrip supply by 2025 and therefore, to safeguard this resource for future generations, evidence needs to be generated to inform adequate legal protection for strategic water resources. Toxic metals are naturally present in the environment but due to anthropogenic activities, such as mining and

agriculture, can become biologically available and reach toxic levels. This poses serious threats to human and wildlife health via drinking water and food chain biomagnification. Nevertheless, mining has been one of the main economic drivers in South Africa. The country has the world’s fifth-largest mining sector in terms of GDP and is the world’s largest producer of manganese, chrome, and platinum-group metals. However, all this mining activity leads to polluted river systems with an obvious environmental cost. Project Aims and Methods

This project will be conducted in the iconic Kruger National Park, South Africa and the overall aim of the project will be to investigate the effects of toxic metal contamination in freshwater ecosystems. This project will provide essential data on downstream freshwater pollution for future mitigation measures which has the potential to benefit South Africa and other southern African countries with similar challenges. This will contribute to the improvement of human and wildlife health and the provision of potable water. A series of techniques including chemical analysis, DNA barcoding, whole-genome sequencing and ecological experiments under laboratory conditions will be utilised to address the overall project aim. The project will consist of four Work Packages (WPs). In brief, WP aims will include: chemical characterisation of water and snail (bioindicator species) tissue samples *(WP1)*, the assessment of freshwater snail taxonomic/genetic diversity and species distributions *(WP2)*, the investigation of genomic profiles of freshwater snails (*Biomphalaria pfeifferi*) across polluted and pristine river systems and the fine-scale population genetic structure of native *B.* *pfeifferi* *(WP3)* and the study of metal exposure in controlled laboratory experiments*(WP4)*. The supervisory team encourage the co-creation of this proposed project by the student to better match the interest of the student. Candidate requirements

The successful candidate will demonstrate experience in, and willingness to, undertake international fieldwork, specifically in South Africa. A strong background in ecology, population genetics or related molecular approaches and genome analyses (bioinformatics), is desirable, and/or experience in statistical analyses/modelling or Geographic Information Systems (GIS) are required. In addition, some experience with Big data is desirable. The student will be based in Wales (UK) with fieldwork in South Africa and training in Portugal and Exeter (UK). Project partners

National Museum Wales. Training in freshwater snail identifications using a morphological approach.

*SANParks. Provides logistics (guides, specific site access, vehicles, laboratory facilities and equipment) and

access to the iconic Kruger National Park. Sampling permits and export permits will be approved by the SANParks scientific/ethics committee.*

For more information contact Dr Isa-Rita Russo (russoim@cardiff.ac.uk) or Dr Luis Cunha (luis.cunha@uc.pt).

*The application deadline is Monday 10 January 2022 at 2359 GMT. Interviews will take place from 23rd February to 9 March 2022. For more information about the NERC GW4+ Doctoral Training Partnership please visit * <https://www.nercgw4plus.ac.uk> Luis Cunha BSc, MSc, PhD, FHEA Assistant Researcher at Centre For Functional Ecology - Science for People & the Planet A Department of Life Sciences - University of Coimbra | Calçada Martim de Freitas | 3000-456 - Coimbra - Portugal M +351914419745 E luisnevescunha@gmail.com / luis.cunha@uc.pt W <https://luiscunha.xyz> Twitter @luiscunhamx Uk mobile/whatsapp +447857241323 Website <http://cfe.uc.pt/profile/members/1809> Skype luiscunhamx Availability <https://bit.ly/3oBd7Io> Luís Cunha <luisnevescunha@gmail.com>

LakeheadU SpruceQuantGenetics

PhD research in spruce quantitative genetics ??? Lakehead University

Our research group is seeking a highly qualified PhD student to undertake a four-year PhD research project aimed at examining quantitative trait variation across the natural range of black spruce (*Picea mariana*). Applicants should have completed a four-year undergraduate degree in science or mathematics and should also have completed a two-year research-based masters degree (applicants currently enrolled in a masters thesis program and that are near completion may also be considered). The ideal candidate will possess a strong background in population genetics and statistics.

The PhD student will undertake research to examine patterns of quantitative trait variation and adaptation to climate in black spruce (*Picea mariana*). Black spruce has a transcontinental distribution in North America, stretching from the Atlantic coast to Alaska, USA. Occupying a diverse range of environmental conditions across its natural range, black spruce possesses considerable genetic variation in adaptive traits among its geographic populations. We have previously collected growth and survival data from range-wide black spruce provenance trials located across Canada and the United States to

investigate patterns of adaptive variation in relation to climate in black spruce. The proposed PhD research is intended to build on this past work by modeling the genetic response surface of provenances to varying climate at test sites and formulating the seed transfer functions and optimal seed transfer guidance for forest renewal sites using innovative approaches.

The graduate research project will be co-supervised by Dr. Ashley Thomson, Assistant Professor (Forest Genetics) Lakehead University, and Dr. Pengxin Lu, Forest Research & Development Geneticist, Ontario Forest Research Institute.

The intended start date is September 2022. Graduate research funding in the amount of \$15,000 per annum will be provided for four years. In addition, the student will receive (subject to eligibility) a graduate assistantship valued at ~\$13,000 per annum.

Interested applicants should send an up-to-date curriculum vitae (CV), cover letter detailing relevant experience, a statement of research interest, and contact information for three potential references to Dr. Ashley Thomson (athomson@lakeheadu.ca).

Ashley Thomson, PhD, RPF (she/her) Assistant Professor Faculty of Natural Resources Management

Lakehead University 807-343-8442 ashley.thomson@lakeheadu.ca

PLEASE NOTE MY WORK HOURS: I check and respond to emails during my working hours of Monday to Friday, 8:30 am to 4:30 pm. I will not regularly see or respond to emails outside of these hours. Are you ok? Our How to Ask for Help at Lakehead guide was made for you. Need to talk to someone right now? Good 2 Talk is a free, confidential 24/7 post-secondary student helpline. Call 1-866-925-5454 or text GOOD2TALKON to 68686

Ashley Thomson <athomson@lakeheadu.ca>

LOEWE-TBG Frankfurt Biodiversity

Job offer ref. #12-21008

The LOEWE Center for Translational Biodiversity Genomics (LOEWE-TBG, <https://tbg.senckenberg.de/>) aims at making the genomic basis of biological diver-

sity accessible for basic and applied research. Building on genome sequencing and analysis, LOEWE-TBG research topics range from comparative genomics, natural products genomics, and genomic biomonitoring to functional environmental genomics. LOEWE-TBG is based in Frankfurt am Main, Germany, and is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology.

Subject to funding approval LOEWE-TBG and the Senckenberg Gesellschaft für Naturforschung invite applications for a

PhD Position (m/f/d; 65%) in the EU-project

EMYS-R: A socio-ecological evaluation of wetlands restoration and reintroduction programs in favor of the emblematic European pond turtle and associated biodiversity: a pan-European approach

Project background: Over the last 3 decades, the EU has funded numerous projects for wetland restoration in favor of the European pond turtle. Yet the results of these measures need to be more intensely promoted. A key question remains unanswered: what are the most effective wetland restoration methods suitable for sustainable maintenance and recovery of the European pond turtle and associated wildlife throughout Europe?

EMYS-R consolidates an existing international network of researchers and stakeholders to share complementary knowledge on past, present and future wetlands, biodiversity and their management. It is a 3-year participatory action-oriented research project based on seminal theories in humanities, social and natural sciences. It aims at testing the hypothesis that higher degrees of wetland restoration can compensate for limited capabilities of captive bred turtles to settle in the wild, and assess how specifically such conservation actions benefit society by bringing together people and nature.

Your tasks:

The successful PhD candidate will be involved in the ecological assessment of wetland restoration, turtle reintroduction and consequences on local biodiversity including non-target species. While based in Frankfurt am Main, Germany, the candidate will spend a substantial amount of time at the German and French field sites, and will also be traveling to trainings and meetings in Poland and Latvia, contributors of the EMYS-R consortium. More specifically, the successful candidate will conduct the following tasks:

Data collection: behavioral (animal-borne data loggers including GPS and time-depth-acceleration recorders),

biometric/demographic (capture-mark-recapture protocols) and ecological (water, sediment, turtle-centered prey-predators feces samples) on the German study site in Neuburg am Rhein eDNA Metabarcoding of environmental (water and sediment) and ecological (turtle prey-predator feces) samples bioinformatic analyses of metabarcoding sequences for genomic biodiversity monitoring and food web analyses Data analyses of existing and formerly collected time series on turtle behavior, biometry and demography Support and then lead field sessions in Neuburg am Rhein Support with public perception seminars and workshops in Neuburg am Rhein Literature review on German-written grey literature about wetland renaturations and turtle reintroductions Writing scientific publications, contributing to national and international conferences, as well as to internal reports and international guidelines

Your profile:

Master degree in Biology, Ecology, Environmental Sciences, or equivalent Programming experience with manipulating large database (Metabarcoding sequences, behavioral long time series) knowledge in R, MatLab and Linux desirable Experience in the molecular genetic lab Experience with Metabarcoding desirable Mastering multivariate statistics Interest in interdisciplinary approaches Proven capabilities in implementing field protocols in remote places in autonomy and within a team Able to team up within a large international consortium Professional communication skills within the scientific consortium, but also with local stakeholders Fluent (speech and writing/reading) in German and English Ideally you are owner of the driving license B, are easy with wetlands and are able to swim

Salary and benefits are according to a full-time public service position in Germany (TV-H E13, 65%). The contract should start as soon as possible - but no later than April 1st, 2022 - and will initially be limited for 3 years.

The Senckenberg Research Institutes support equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment is in Frankfurt am Main, Germany.

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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>

LouisianaStateU FungalPathogenEvolution

Two graduate assistantships (one PhD and one MS) are available to work on epidemiology, population genetics, and fungicide resistance of *Cercospora* leaf blight (CLB) of soybean. The research projects are collaborative efforts across the labs of Drs. Jonathan Richards, Vinson Doyle, and Sara Thomas-Sharma, and will involve a network of soybean researchers across the mid-South.

The PhD student will work on population biology/genomics of *Cercospora* associated with CLB. This project aims to understand population dynamics and genomic signatures of host adaptation and fungicide resistance evolution of CLB pathogens across the mid-southern United States. This project would include both field and lab work. Field work will include sampling from agricultural and non-agricultural habitats and experimental field plots. Lab/computational work will include reference genome development (nanopore, Pacbio sequencing), RNAseq, differential gene expression analysis, demographic analysis, etc. The student will also leverage population genomic data to design assays for rapid screening of fungicide resistance (for QoI, DMI, and SDHI fungicide chemistries) and identify additional SNPs that might be associated with fungicide resistance. Student skills gained at the end of project period will thus include systematic sampling, working with big data, assay development, among others.

The MS student will work on identifying spore peaks of *Cercospora* spp. from spore trap data across the mid-South. The student will use available quantitative PCR detection methods to quantify spore peaks and identify environmental variables associated with spore peaks. Student will also have the opportunity to assist with coordination of multi-state spore-trapping efforts and field experiments to target spore peaks. Student will thus gain skills in setting up field experiments, application of detection tools, data analysis, etc.

Both students will be expected to participate in scientific meetings, publish findings in peer-reviewed journals, and apply for independent funding opportunities.

Please send a letter of interest (maximum one page) to the following addresses describing why you are interested in a graduate program and your experiences that may be relevant to these projects.

Sara Thomas-Sharma: SThomasSharma@agcenter.lsu.edu

Jonathan Richards: JRichards@agcenter.lsu.edu

Vinson P. Doyle: vdoyle@agcenter.lsu.edu

Vinson <sonofvin@gmail.com>

QMULondon 2 Evolution

A fully funded PhD studentship covering tuition fees, and also an annual tax-free maintenance allowance for 3 years at the Research Council rate ($\frac{1}{2}$ 17,609 in 2021/22) is open to UK and international students.

Project outline Understanding spatial connectivity is critical to malaria control: otherwise human communities can be continually seeded with new infections. Traditional methods for identifying infection routes rely on patchy information about human travel. Genomic data, from the malarial parasite itself, offer far more direct and powerful information. This project will compare the performance of a Bayesian method for directly inferring the migration routes (described by a population genetics model) with alternative approaches using supervised AI learning methods.

Contact r.a.nichols@qmul.ac.uk for further details.

Required Skills An appetite for coding and mathematical modelling to solve problems in evolutionary genetics is more important than extensive experience.

Cohort of students on related projects This project is one of 30 funded PhD studentships, under the theme of Environment, Biodiversity and Genomics. This student cohort will train together, following an exciting programme designed to inspire the next generation of environmental experts, managers and leaders. They will be equipped to address some of the toughest challenges of our time.

A link to the application site is on this page (which includes information about other projects too): t.ly/ymgh There is limited time to contact the PI before the deadline, so if you want more details you are advised to email ASAP.

Application deadline is in 30th Jan 2022. Studentship start date Sept 2022

We are offering funded 30 PhD studentships, under the theme of Environment, Biodiversity and Genomics. This student cohort will train together, following an exciting

programme designed to inspire the next generation of environmental experts, managers and leaders. They will be equipped to address some of the toughest challenges of our time.

These studentships will cover tuition fees, and also provide an annual tax-free maintenance allowance for 3 years at the Research Council rate (i.e. $\frac{1}{2}$ 17,609 in 2021/22). Projects are open to UK and international students. The higher fees for international students (including EU) may be covered for up to 2 candidates.

Specific research topics are listed here: [t.ly/ymgh](https://www.qmul.ac.uk/dce/applications/) There is limited time to contact supervisors before the deadline for further details (so you are advised to do that ASAP)

Application deadline is in 30th Jan 2022. Studentship start date Sept 2022

r.a.nichols@qmul.ac.uk r.a.nichols@qmul.ac.uk

QueenMaryU London PopulationGenetics

Several PhD positions are available in Matteo Fumagalli's lab at Queen Mary University of London. Starting dates are in September 2022 and deadlines towards the end of January.

- PhD studentship for Mexican nationals through the CONACYT scheme is available on population genetics of malaria mosquito vectors using machine learning (co-supervised by Richard Nichols): <https://www.qmul.ac.uk/sbbs/postgraduate/phd-programmes/projects/display-title-935826-en.html> - PhD studentship for Chinese nationals through the China Scholarship Council scheme is available on ancient DNA and machine learning (co-supervised by Laurent Frantz): <https://www.qmul.ac.uk/sbbs/postgraduate/phd-programmes/projects/display-title-935665-en.html> - Fully-funded PhD position supervised by Richard Nichols on Bayesian inference of malarial parasite: <https://www.qmul.ac.uk/sbbs/postgraduate/phd-programmes/projects/display-title-936857-en.html> - BAME Doctoral Research Studentships for UK candidates from BAME (Black, Asian, and Minority Ethnic) backgrounds: <https://www.qmul.ac.uk/sbbs/postgraduate/phd-programmes/studentships/s-e-bame-doctoral-research-studentships/> Other openings are possible via <https://www.qmul.ac.uk/sbbs/postgraduate/phd-programmes/studentships/bbsrc-dtp-studentships/> or

<https://www.qmul.ac.uk/dce/applications/> . Queen Mary University of London has been ranked top in social mobility and has the goal of being the most inclusive university in the UK. The student will join a highly international and multicultural cohort of students.

Matteo Fumagalli (he/him) m.fumagalli@qmul.ac.uk

Senior Lecturer in Genetics School of Biological and Behavioural Sciences Queen Mary University of London Mile End Road London E1 4NS www.qmul.ac.uk/sbbs www.evogenomics.ai Matteo Fumagalli <m.fumagalli@qmul.ac.uk>

TennesseeTechU SalamanderEvol

Graduate Student Opportunities Population Genomics of Streamside Salamander (*Ambystoma barbouri*)

Two graduate student opportunities (one Ph.D. and one M.S.) are available through the Department of Biology (<https://www.tntech.edu/cas/biology/>) at Tennessee Tech University in Cookeville, Tennessee; starting date is August 2022.

The successful applicants will use whole genome sequencing and reduced representation genomic techniques to investigate the evolutionary history and population genetic structure and adaptation of the Streamside Salamander (*Ambystoma barbouri*) throughout its range. Specifically, the student would utilize a Gentoyping-by-Sequencing protocol to identify and genotype informative SNPs and utilize this data to address questions related to the conservation of this species. Results from this study will be directly applicable to improving management protocols for the Streamside Salamanders in Tennessee.

We are looking for highly motivated candidates with a degree in biology or closely related field and a strong academic record. A GPA of at least 3.5 is required. The successful candidate should demonstrate an interest in wildlife conservation and molecular genetics. The student will need to possess an aptitude for data analysis and careful research in a molecular genetics laboratory as well as an ability to conduct field work. Previous experience working in a molecular laboratory is preferred but exceptional applicants without experience will be considered. Financial support (stipend and full tuition waiver) will be provided through teaching and research assistantships and will be renewable annually contingent

upon satisfactory performance.

Interested students are encouraged to e-mail me (churt@tntech.edu). Please include a short description of your academic background, research interests and your CV. Screening of applicants will begin immediately. Please contact me by February 1, 2022 for full consideration.

There is an additional PhD opportunity related to this project at Tennessee State University. This position will focus on habitat modeling and occupancy of stream-side salamanders in Tennessee. Please contact Dr. Bill Sutton (wsutton@tnstate.edu) for more information.

Carla Hurt, Ph.D. Associate Professor of Biology Tennessee Tech University P.O. Box 5063 Cookeville, TN 38505 931-372-3143 churt@tntech.edu

“Hurt, Carla” <churt@tntech.edu>

UBielefeld BuzzardEvolution

We are recruiting a bright and ambitious student to join our work with common buzzards (*Buteo buteo*), goshawks, eagle owls and other birds of prey. In this project you will combine several cutting-edge technologies, utilize their synergies and write many publications, mainly concentrating on morph-dependent host-parasite interaction behaviour, physiology and transcriptomics in these fantastic birds!

WHERE: If you decide to come on this research adventure, you will be joining our team at the Department of Animal Behaviour in Bielefeld University, Germany <https://bit.ly/2ZztNbd>. Field work will take place around Bielefeld, where we have been studying the raptor populations since 30 years.

WHAT YOU WILL BE DOING: Analysing and writing papers. Apart from that, the fun includes daily field work, nest checks over four months, nest video surveillance, sampling of raptor nestlings, as well as combining analyses of transmitter tags, transcriptomic and life history data. Both field work and analyses are very demanding, so thoroughly enjoying both is essential, as are previous experience and the will to push boundaries. We seek a highly motivated student with an MSc degree or equivalent in a relevant field (e.g., animal behaviour, behavioural ecology, population ecology, evolutionary ecology, wildlife -omics, ornithology, parasitology) who wants to conquer the scientific world while working with the coolest birds possible. Organ-

isational skills, understanding of hot topics in ecology and evolution, and overflowing with own ideas in these fields will be indispensable. The ideal candidate will be able to work both independently and as part of a multidisciplinary team, will have experience in statistics and/or bioinformatics and excellent spoken and written English.

WHAT WE OFFER YOU: A great team to join and reinforce. Some prerequisites for a great scientific career; some you have to bring along. Also, a fully funded 3-year PhD position (salary 65% 13 TV-L) and many training opportunities. You will be also a crucial part of the large collaborative research centre NC3 <https://bit.ly/3I7PxNq> between Bielefeld, Meunster and Jena universities, developing and testing universal concepts about individualized ecological niches. Check it out!

WHEN: The preferred starting date is 1st February 2022. The field season will take place from 15th March 2022 and many preparations are needed before.

The student will be supervised by Nayden Chakarov and Oliver Krieger. Our department is the oldest of its kind in Germany and currently hosts seven principal investigators, ten postdocs, and 20 PhD students from over ten different countries working on related topics in behaviour, ecology, and evolution. It offers a stimulating international environment and an excellent research infrastructure. The working language is English. Bielefeld is a city of 333,000 inhabitants, having an odd blend of big city flair with pockets of quiet, simple rural life and easy access to the Teutoburger Forest for hiking and other outdoor pursuits.

HOW TO APPLY: Please send (i) your CV, (ii) a 1-2-page letter of motivation including a statement of your research experience and how it fits the specific project, and (iii) the contact details of three referees as a single PDF file to: nayden.chakarov@uni-bielefeld.de. Review of applications will begin on the 1st January 2022. For further information, please see the webpage <https://bit.ly/3diExhG> or contact Nayden Chakarov via email.

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

“Chakarov, Nayden” <nayden.chakarov@uni-bielefeld.de> “Chakarov, Nayden” <nayden.chakarov@uni-bielefeld.de>

UBielefeld TheoreticalEcolEvolution

* 2 open PhD positions in the Theoretical Biology group at Bielefeld University, Germany. Application deadline January 19 *

Dear evoldir community,

Within the Collaborative Research Centre “A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC³, https://www.uni-bielefeld.de/fakultaeten/biologie/forschung/verbuende/sfb_nc3/)”, I am looking for two PhD students to model the consequences of intraspecific trait variation in combination with niche choice, niche conformance (closely related to phenotypic plasticity), and niche construction. One PhD project will focus on the consequences for population performance and persistence in a changing world; the other PhD project will focus on consequences for species interactions. Also exciting collaborations with the empirical groups in the research centre on several study organisms are planned.

Research tasks (95 %) - development of eco-evolutionary models - mathematical analysis of models - implementation in a programming language (e. g. R, C++, Python) - simulation studies - writing of scientific publications - collaboration with other research groups within the collaborative research centre

Other tasks (5 %) - organisation tasks in the research group and collaborative research centre

We expect: - a university degree in a relevant scientific discipline, e. g. biology, mathematics, physics, or bioinformatics - aspiration and ability to do a doctorate - programming skills in at least one programming language (e. g. R, C++, Python) - interest in both biological and mathematical questions - excellent command of scientific English, written and oral - motivation and communication skills to work as part of an interdisciplinary collaborative team

Preferred experience and skills: - experience with mathematical modeling - working knowledge of ecology and evolution

Please send your application as a single pdf to meike.wittmann@uni-bielefeld.de and put the code Wiss22102 in the subject line. The application deadline is January 19, 2022.

For full details, see the official advertisement at: https://uni-bielefeld.hr4you.org/job/view/1106/-research-positions-phd-students?page_lang=en Best wishes,

Meike Wittmann

– Meike Wittmann Junior Professor of Theoretical Biology Bielefeld University, Faculty of Biology Postfach 10 01 31, 33501 Bielefeld, Germany Office: W4-101 Phone: +49 521 106 67627 meike.wittmann@uni-bielefeld.de <https://www.uni-bielefeld.de/fakultaeten/biologie/forschung/arbeitsgruppen/theoretical/meike.wittmann@uni-bielefeld.de>

UDenver Speciation EvolGenomics

Erica Larson’s Lab (<https://www.larsonlab.space>) at the University of Denver has openings for PhD or MS students (starting Fall 2022) interested in speciation, evolutionary genomics, or hybrid zones. We have a highly collaborative team that spans the Larson Lab and the Tinghitella Lab. We are looking for students to work on an NSF funded project that uses a phenotype-drive approach across replicate hybrid zones to connect spatial variation in ecology, behavior and genomic architecture with patterns of gene flow. There are many different research opportunities including:

1. Genomic analyses of extensive population genomic datasets from multiple transects of the hybrid zone (ddRADseq, WGS, RNAseq) to test variation recombination rates, population structure, introgression, and selection.
2. Field work throughout the hybrid zone. Field season span late July- early October with flexible schedules for collecting or conducting work in the field.
3. Lab crosses to investigate population variation in fertilization barriers and hybrid fitness, with the potential to do QTL analyses.
4. New directions exploring these processes in other, closely related cricket systems.
5. Community Science projects on singing insects, including biodiversity surveys and developing field guides.

The Larson Lab is committed to justice, equity, diversity and inclusion and welcomes applications from members of historically excluded groups. The University of Denver has a strong research group in ecology and evolutionary biology (<https://dueeb.weebly.com>) and is situated in an awesome western city with a vibrant art community, music, and access to amazing recreation in the Rocky Mountains. We also have great weather,

with lots of sunshine!

If interested, please contact Erica Larson, erica.larson@du.edu. Include a CV and brief statement describing your research background, motivation for applying to graduate school, and interests in this research project.

Erica Larson <Erica.Larson@du.edu>

UGroningen 2 AvianEvolution

PhD Scholarship Inbreeding, mitochondrial performance and senescence in birds (B045221)

Scholarship opportunities

We are looking for a student who wishes to design their own PhD research project researching inbreeding effects on senescence and physiological mechanisms of senescence. You will be supervised by Hannah Dugdale (RUG; <https://hannahdugdale.wordpress.com>), Simon Griffith (MQ; <https://griffithecology.com>), and David S Richardson (University of East Anglia, UK, https://people.uea.ac.uk/david_richardson).

This is a double degree at RUG and MQ. For the first two-years you will be based at RUG and embedded in the Seychelles Warbler Project (<http://seychelles-warbler-project.group.shef.ac.uk>). You will conduct fieldwork in the Seychelles for a minimum of two seasons (up to 3 months per season), with a COVID-19 contingency plan. For the second two-years you will be based in Australia on the MQ campus. You will be part of a team of PhD students, post-docs, and staff who are using long-term individual-based datasets of natural and captive populations to improve understanding of life-history evolution.

As a PhD scholarship student, you will develop your own research project in consultation with the associated supervisors. You will conduct independent and original scientific research, report results via peer-reviewed publications, conference presentations, and ultimately a PhD thesis. The PhD thesis has to be completed within four years. Being part of a cutting-edge research programme, you will receive training in the form of hands-on instruction, advanced courses, summer/winter schools, as well as complementary workshops on generic research and transferable skills. Special attention is paid to training activities directed towards your future (academic or non-academic) career after the PhD trajectory, in the context of the RUG's Career Perspective Series, and the

Research Training Certification Program at MQ.

Project One of the most profound challenges we all face is our deterioration with age - a process known as senescence. Individuals clearly senesce differently, in both the age they start to deteriorate and the rate of their decline. However, the underlying causes of these differences in senescence patterns remain poorly understood. Inbreeding increases the proportion of the genome that is identical by descent, reducing genetic heterozygosity and increasing the expression of deleterious recessive alleles, thus reducing fitness. Genomic markers provide power to estimate heterozygosity and test the prediction that inbreeding depression increases with age. Additionally, improved understanding of the cellular physiology of senescence will highlight potential mechanisms of senescence. This will help clarify why some individuals are less able to buffer against senescence, perhaps, for example, due to their genetic makeup or mitochondrial performance.

You will design your project to investigate inbreeding effects on senescence, and physiological senescence. In the Netherlands, you will have the long-term Seychelles warbler dataset available to address this question. Seychelles warblers are cooperative breeders and we have detailed life-history data of over 2,000 birds, spanning more than 30 years. High variance in both senescence and inbreeding occurs in the population. Over 450 birds in our dataset are inbred, and inbreeding effects accumulate over life and impact strongly on survival. Potential research questions are how genome-wide heterozygosity affects senescence, and whether heterozygosity fitness correlations arise due to locus specific or genome-wide effects. In Australia, you will work on the cellular physiology of senescence using a captive population of long-tailed finches. In this captive population we have a good pedigree with known demography and use approaches to measure mitochondrial performance non-invasively. This component will provide insight into potential underlying mechanisms of organismal senescence. The overall project will improve our understanding of how and why some individuals live longer, healthier lives, and provide important insights into ways of mitigating senescence.

References Bebbington K, Spurgin LG, Fairfield EA, Dugdale HL, Komdeur J, Burke T, Richardson DS (2016) Telomere length reveals cumulative individual and transgenerational inbreeding effects in a passerine bird. *Molecular Ecology*, 25, 2949-2960.

Hammers M, Kingma SA, Bebbington K, van de Crommenacker J, Spurgin LG, Richardson DS, Burke TA, Dugdale HL, Komdeur J (2015) Senescence in the wild: Insights from a long-term study on Seychelles warblers.

Experimental Gerontology, 71, 69'79.

Hooper DM, Griffith SC, Price TD (2019) Sex chromosome inversions enforce

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A limited number of EMJMD scholarships are available for the highest ranked students. Details on the program and the selection procedure can be found on www.evobio.eu. Starting date: 1 September 2022 Application deadline: 15 January 2022

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

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

MEME Office <meme@rug.nl>

UGroningen EvolutionaryBiology

MEME Application Cohort 2022 open!

Please alert your students to this great opportunity!

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

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

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

UHelsinki Biomath

Biomathematics MSc program at the University of Helsinki

At the University of Helsinki (Finland), we offer an ecology- and evolution-centered biomathematics package for MSc students of mathematics and life science informatics. Building models from an understanding of the underlying processes and developing mathematical skills for model analysis, the students learn how to model real-life phenomena. For research-oriented students, the scope and depth of this package provides a strong foundation for pursuing a PhD.

Our program has seven regular full-semester courses taught by Stefan Geritz and Eva Kisdi,

* Introduction to mathematical biology * Mathematical modelling * Evolution and the theory of games * Adaptive dynamics * Stochastic population models * Spatial models in ecology and evolution * Mathematics of infectious diseases In addition, our department also offers courses in statistical ecology and statistical genetics. All MSc courses are in English.

The Biomathematics package is available through two different Master's Programmes of the University of Helsinki, either as the Mathematical modelling specialization of the Master's Programme in Mathematics and Statistics (MAST) or the Biomathematics study track of the Master's Programme in Life Science Informatics (LSI). More information and admissions via the website <https://www.helsinki.fi/en/admissions-and-education/apply-bachelors-and-masters-programmes/-apply-international-masters-programmes> (application deadline 5 January). There is no tuition fee for students coming from the EU/EEA/Switzerland.

Exchange students are welcome to individual courses

(see the timing of the courses on <https://wiki.helsinki.fi/-display/BioMath/Teaching>).

With best regards, Eva Kisdi (eva.kisdi@helsinki.fi)

“Kisdi, Eva” <eva.kisdi@helsinki.fi>

UHull UK BeeGenomics

~~ Fully funded PhD: Nutrigenomics and the resilience of bees in a changing climate ~~

For details please contact Dr James Gilbert (james.gilbert@hull.ac.uk). To apply, and for more details: <https://panorama-dtp.ac.uk/research/nutrigenomics-and-the-resilience-of-bees-in-a-changing-climate/> Deadline: 5 Jan 2022 Eligibility: UK, EU and International: see further info here: <https://panorama-dtp.ac.uk/how-to-apply/> Funding: UK (NERC, Competition-funded; CASE partner)

A fully funded PhD position is now open for applications at the Universities of Hull and Leeds, UK, via NERC's Panorama Doctoral Training Partnership programme.

Bees, our foremost pollinators, are vital for ecosystem stability and global food security - providing pollination services worth hundreds of billions of pounds annually. The UK is home to ~245 species of wild bees which collectively perform more pollination than managed honeybees and bumblebees. Unfortunately, wild bee populations are declining, under pressure from multiple causes - one key factor being nutrition.

All bees feed offspring with pollen gathered from the landscape. But human influences such as agricultural intensification are altering nutritional landscapes for bees [3,4], and fundamentally affecting gene expression, growth and reproduction. Most of what we know about bee nutrition comes from studies in social bees like honeybees or bumblebees [5,6], where nutrition influences caste determination, development, pathogen resistance and others. However, the nutritional ecology of other bees, particularly solitary bees, is largely unstudied.

Human activity is also changing climates and raising average temperatures. Temperature affects animals' metabolic rate, physiology, digestion, and nutrient assimilation, as well as gene expression. Dr Gilbert's recent work [7] has identified the need to store enough carbohydrate and fat to survive the winter as potentially critical for solitary bees' nutritional ecology. But we know little about how this is regulated, how climate

change will affect bees, and how bees will deal with changing nutritional landscapes in a future filled with uncertainty.

We are now, for the first time, in a position to understand not just whether but also how different nutritional landscapes and climates affect bees. This exciting cross-institutional project combines field ecology with cutting edge molecular approaches to address a crucial knowledge gap about how bees are being affected by human-altered nutritional landscapes. This project addresses issues relevant for pure ecological science, conservation biology, agriculture and crop science.

At Hull, Dr Gilbert's lab has pioneered rearing protocols for the economically and ecologically important solitary bee, *Osmia bicornis*. This work is providing an unprecedented window onto bee nutritional ecology. At Leeds, Dr Duncan's lab uses a variety of cutting-edge molecular tools to understand how bees are influenced by their environment. Dr Duncan has conducted groundbreaking work on how nutrition affects gene expression in developing bees, as well as recent work on the environmental and molecular control of reproduction in *O. bicornis*. The student will capitalise on this timely opportunity to synthesize the research interests of these two research groups and create collaborative links between institutions. The candidate will be integrated into both lab groups and will benefit from the infrastructure and connections at both universities.

Using careful manipulations within controlled laboratory environments, the student will first establish how dietary macronutrients affect the fitness of solitary bee larvae in response to changes in rearing temperature. Then, they will use high-throughput sequencing technology to examine genome-wide expression profiles of larvae receiving different diet and temperature treatments, to understand the molecular and physiological mechanisms underlying bees' responses to landscape and climate change. Nutritional cues are known to alter gene expression [8], but to date studies have focussed largely on a few genes, and only in honeybees. The student will compare larvae receiving different treatments in (1) choices larvae make about which nutrients to consume, (2) correlates of fitness such as body size and overwinter survival, and (3) expression of growth-versus diapause-related genes.

Outcomes: The findings will, firstly, shed light on the optimal nutrition for bees - both currently, and in a warmer future. They will help inform active measures such as wildflower strips to conserve and promote these vital pollinators as the climate changes. Secondly, results will also show the physiological effects of different nutritional



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UIdaho FunctionalGenomics

Graduate position: UIdaho.FunctionalGenomics

Adam Jones' Lab in the Department of Biological Sciences at the University of Idaho has an opening for a Ph.D. student (starting Fall 2022) interested in studying the evolution of genes involved in sexual conflict and antagonistic pleiotropy. The project will take advantage of tools in functional genomics (e.g., CRISPR) and next-generation sequencing approaches to understand the evolution of genes affecting sexual selection, sexual dimorphism, and life history traits in the African turquoise killifish, *Nothobranchius furzeri*.

The University of Idaho is in Moscow, a small college town located in Northern Idaho on the Washington border. Moscow is widely considered to be a great place to live, and it's known for a pleasant downtown, active farmer's market, and nearby recreational opportunities. All of Moscow is within biking or walking distance of the University of Idaho. For more information about Moscow, see—<https://visitmoscowid.com/>. The University of Idaho has very strong faculty in evolution and genomics in multiple departments and interdisciplinary programs. Of particular note are the Bioinformatics and Computational Biology Program (BCB: <https://www.uidaho.edu/sci/bcb/people/faculty>) and the Institute for Bioinformatics and Evolutionary Studies (IBEST: <https://www.ibest.uidaho.edu/index.php>). In addition, the University of Idaho is only eight miles from Washington State University in Pullman, and faculty from the two institutions interact and collaborate extensively.

Candidates can apply by visiting the Department of Biological Sciences website (<https://www.uidaho.edu/sci/biology/academics/graduate-studies>). Informal inquiries are encouraged and can be directed to Adam Jones (adamjones@uidaho.edu).

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

UJyvaskyla FungalBiodiversity

PhD project: ****Ecological assembly processes: a predictive framework for fungal metacommunities**** Main supervisor: Nerea Abrego Application deadline: January 14, 2022

With our planet facing the so-called sixth mass extinction, there is an urgent need to mechanistically understand the processes organizing biodiversity. A robust fundamental understanding the forces shaping biodiversity is the basis for any rational management of natural resources. Reaching such understanding, is the core aim of community ecology. Thus, much of the focus of the empirical research in community ecology is on measuring the roles of different assembly processes in shaping ecological communities (i.e., measuring what mechanisms determine what species occur where and when). From earlier research, one thing is well known: the habitat or abiotic environment has a huge influence on what species are found at a given location and time. In other words, the role of environmental filtering as a process shaping species communities is well known. However, there are other less studied processes which should also influence species community composition, as are the role of biotic interactions, dispersal and stochastic processes. One of the reasons why the latter mentioned processes remain less studied is simply that they are more challenging to study, requiring experimental settings and study systems that conform to the assumptions of theoretical frameworks. In this project, we will use wood-inhabiting fungal metacommunities in island landscapes as the study system. One major advantage of wood-inhabiting fungi as study systems is that they are organized as spatially well-defined metacommunities, thus conforming to the assumptions of many theoretical frameworks. Another major advantage they allow for experimental manipulations targeted to all community assembly processes in a way that would not be possible for almost any other species-rich community.

The work involved in this project includes fieldwork for collecting data and setting up experiments, preparation of samples for DNA analyses, and application of statistical methods, importantly joint species distribution modelling. Dr. Nerea Abrego will act as the main supervisor and Prof. Otso Ovaskainen as the co-supervisor. Abrego is an expert in theoretical and empirical community ecology and Ovaskainen in mathematical and

statistical modelling. The PhD candidate will be integrated to a multidisciplinary research group focusing broadly on community ecology, providing the opportunity to gain a variety of skills (conceptual, theoretical, empirical, bioinformatical and statistical research) that will enable a wide range of possible career paths after dissertation.

For further details, please contact: Academy Researcher Fellow Nerea Abrego (nerea.n.abrego-antia@jyu.fi)

Job announcement: https://www.jyu.fi/science/en/bioenv/research/doctoral-programme/-phd-posts/2022/open-doctoral-student-positions?_ga=2.195127340.168143020.1638219743-113830343.1638219743
Brendan Furneaux
<brendan.r.furneaux@jyu.fi>

UJyväskylä PopulationEpigenetics

Department of Biological and Environmental Science at the University of Jyväskylä, has a call open to recruit 3 students into doctoral program of the department. The position is for 4 years, starting from August 2022. The annual salary for a Doctoral Researcher will be approximately 28 000 EUR (gross income, including holiday bonus).

The application to the doctoral programme is a two stage process. There are several projects available, including mine (see description below), not all of them are related to evolutionary biology. In the first round the applicant selects a project (only one) that they are interested in. The deadline for the first round is January 14th 2022. Apply using the electronic application form found here: <https://tinyurl.com/5999y729> After the application deadline, the main supervisor of each project will select one best candidate for their project. These top candidates will be asked to write a 2-page long research plan on the thesis topic and will be interviewed by a committee of the doctoral program. Decision on the positions will be made by March 31, 2022.

More information can be found at: <https://tinyurl.com/bdfappn4> Please read it carefully.

The candidate is expected to have, or is about to obtain, a Master's degree in a relevant discipline.

I know the application process to the doctoral school is laborious, but please consider applying if you are interested in the project.

About my group: My group studies evolutionary genetics focusing on adaptation and mutation. Projects going on in the lab include the role of epigenetic changes in adaptation, mutations and their effects, parental effects (in fungi) and their role in adaptation, quantitative genetics of thermal performance, and adaptation in fluctuating environments. We use mainly fungal experimental systems: the filamentous fungus *Neurospora crassa*, and fission yeast. Fungi are very good genetic model systems, and with fission yeast it is possible to do experimental evolution. Sometimes we also use computer simulations to investigate how evolution works. Otherwise we use the methods and theory of population and quantitative genetics.

More information about the lab can be found at: ikronholm.net

The project: Traditionally population genetics has been concerned only with DNA sequence changes. However, in recent years it has been revealed that certain epigenetic modifications, such as DNA methylation, can be transmitted from one generation to the next in some contexts, particularly in plants. The aim of this project is to develop population genetic methods for the analysis of methylation variation data. In particular, the goal is to compare different methods of calculating divergence in methylation patterns and examine how to use methylation information in population genetic analyses. Second goal is to investigate the patterns of DNA methylation variation in the filamentous fungus *Neurospora crassa* that is being collected in our group, and to test hypotheses of about the role of methylation variation in publicly available data from plants. There is also some room to tailor the project according to interests of the candidate. For example looking at different aspects *Neurospora* population genetics such as recombination, natural selection, particularly for structural variants. The project will be mostly computational in nature, and a successful candidate should have a strong interest in population genetics and evolutionary biology. A background in evolutionary biology, population genetics, bioinformatics or a related discipline is an advantage, as are some programming skills such as R or python, and familiarity with unix/linux. Previous experience with fungi is not required.

About Jyväskylä and Finland: Finland has a high standard of living, with free schooling (also in English), affordable childcare, good family benefits, and health-care. Jyväskylä is located in central Finland in the Finnish lakeland, and has excellent opportunities for different nature, outdoor, and sports activities. The city of Jyväskylä is a major educational center and the city has a large student population. As such there is a vibrant cultural scene in the city.

To find useful information about the University of Jyväskylä, the City of Jyväskylä and living in Finland, see the international staff guide: <https://www.jyu.fi/en/workwithus/international-staff-guide> For further details or any questions, please contact: Ilkka Kronholm Academy Research Fellow Biological and Environmental Science University of Jyväskylä, Finland ilkka.kronholm@jyu.fi @kronholmlab

Kind regards, Ilkka Kronholm

“Kronholm, Ilkka” <ilkka.kronholm@jyu.fi>

UKonstanz BirdSocialBehaviour

What makes groups successful?

The Griesser lab (Department of Biology & Centre for the Advanced Study of Collective Behavior, University of Konstanz) is looking for 1 PhD candidate to investigate the consequences of the interplay between individual and group social phenotype in a wild bird species. Individual fitness is the currency of Darwinian evolution, and largely depends on an individual's social phenotype (e.g., cooperativeness, aggressivity, stress sensitivity). However, in animals living in enduring social groups, an individual's fitness is also affected by the group's social phenotype. Although the latter component is rarely considered, it is potentially quite important: successful groups should be better at coordinating their behaviours, e.g., during foraging or predator encounters.

This PhD project will investigate these links in wild population of Siberian jays (*Perisoreus infaustus*) in Swedish Lapland, monitored since 1989. Our study population is located in both pristine and managed forests. This bird species lives in stable, enduring groups composed of a breeding pair and up to 4 non-breeders, and we follow individuals in up to 90 groups throughout their life to collect life-history data and standardized behavioural data. Non-breeders differ largely in how well they are integrated into the group. The PhD project will combine field experiments with existing long-term data to investigate the interplay between individual and group social phenotype, and its consequences. A short description of our past research can be found here: <https://www.youtube.com/watch?v=JaH6wjAYAiE> You will join the Griesser lab and the interdisciplinary team at the Excellence Cluster for the Advanced Study of Collective Behaviour at the University of Konstanz, and become a member of the IMPRS. The position can begin April 2022 (latest 1st July 2022) and will be fully

funded for three years (65%, salary scale 13 TV-L).

Requirements: ——— MSc in behavioural ecology, ecology, evolutionary biology, or similar; ——— Field experience of behavioural observations and experimental work; ——— Bird handling experience (including mist netting); ——— Highly motivated and sociable personality; ——— Project management skills; ——— Ability to work both independently and in a team; ——— Driver's license (manual transmission); ——— Basic knowledge of X-country or downhill skiing; ——— If possible, knowledge of automatized analyses of videos.

Application: Please apply via the IMPRS online platform www.ab.mpg.de/3228/imprs; deadline is 15 January 2022. Applications should include a CV, a research statement (less than 1 page with academic background, research experience, interests, and goals), and two references. See on the webpage of the IMPRS for details.

The University of Konstanz is an equal opportunity employer that is committed to providing employment opportunities to all qualified applicants without regard to race, colour, religion, age, sex, sexual orientation, gender identity, national origin, or disability. It seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourage women to apply (see equal opportunity).

If you have questions, contact michael.griesser@uni-konstanz.de

----- Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

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

ULausanne 2 AntSocialEvolution

Ph.D. positions in ant social evolution and population genomics, University of Lausanne

Two Ph.D. positions (graduate assistants) in evolutionary biology are available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The successful candidates will join a group studying the evolution and genomic basis of social organization in ants (see <http://www.unil.ch/dee/page7000.html>).

1) The evolution of supercoloniality in ants

The objective of the Ph.D. will be to investigate the evo-

lution of supercoloniality in ants of the genus *Formica*. In the Swiss Jura mountains, the native wood ant *Formica paralugubris* forms large supercolonies, with hundreds of nests connected by trails and hundreds of queens in each nest. The evolution of such supercolonies is still poorly understood. High-throughput sequencing and population genomic analyses will provide high-resolution information on population structure, dispersal patterns, symbionts, and genomic basis of colony traits such as sex ratio. Comparative analyses will reveal if the supergene controlling polymorphic social organization in other *Formica* species has been fixed or lost in *F. paralugubris*, and if the same genes and alleles are associated with high colony queen number across the genus.

Your responsibilities: You will develop research on the evolution of ant sociality and supercoloniality. This will involve field sampling, sequencing, population genomic and comparative genomic analyses. Depending on your interests and skills, behavioural and ecological experiments are also possible.

Your qualifications: In order to complete our team, we are looking for someone with a Master's degree in biology, life sciences, genetics, bioinformatics, or related subjects. Applicants should have knowledge and skills pertaining to evolutionary biology, population genetics, molecular evolution and/or behavioural ecology. We are looking for a creative and driven person with excellent interpersonal skills.

Job information: Expected start date in position: 01.03.2022 (or at earliest convenience) Contract length: The initial contract is for 1 year, renewable twice for two years, up to a maximum of 5 years in total Activity rate: 85% Workplace: Lausanne - Dorigny

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. The working language in the group and in the Department is English for all scientific matters. Good command of English is needed, some knowledge of French would be a plus, but is not mandatory. The University of Lausanne offers state-of-the-art facilities, including excellent computer facilities and molecular labs.

Contact for further information: Prof. Michel Chapuisat : Michel.Chapuisat@unil.ch

Your application: Deadline: 15.01.2022 Incoming applications will continue to be considered until the position

is filled.

To apply, please upload a single pdf document containing: a cover letter with a short description of your research interests, research experience, and why you are interested in joining our group; Your CV; The contact details of 2-3 referees; A copy of your Master degree; Your Master's thesis summary.

To receive full consideration, application documents should be uploaded online through the University of Lausanne recruitment platform. Please apply through this webpage: <https://bit.ly/3rRa0Ak> 2) Selfish supergene in ants

The objective of the Ph.D. will be to investigate the mechanisms by which a social supergene distorts Mendelian transmission. In the Alpine silver ant, *Formica selysi*, a large supergene controls colony social organization, and the haplotype associated with multiple-queen colonies selfishly distorts transmission by killing progeny that did not inherit this haplotype. In collaboration with the team, you will identify the selfish genetic element and characterize the process causing brood developmental arrest. The research will provide insights into the role of selfish genetic elements in the evolution of supergenes controlling complex phenotypes.

Your responsibilities: You will develop research on selfish genetic elements (toxin-antidote elements) present in supergenes. This will involve field sampling, breeding experiments, molecular analyses (transcriptomics, proteomics, RNAi), developmental studies, and genome analyses.

Your qualifications: In order to complete our team, we are looking for someone with a Master's degree in biology, life sciences, genetics, or related subjects. Applicants should have knowledge and skills pertaining to

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ULeeds
PinnipedEvolutionaryGenomics

Competitive PhD scholarship scheme open to UK, EU, and worldwide applicants Closing Date: 5th

January 2022 Where: School of Biology, University of Leeds, UK - <https://biologicalsciences.leeds.ac.uk/school-of-biology> Funder: NERC Panorama Doctoral Training Programme - <https://panorama-dtp.ac.uk/> Principal supervisor: Dr Simon Goodman - <https://goodmanlab.org/> The project: This project will build on rapidly growing genomic resources for pinnipeds (seals, sea lions, fur seals and walrus), including de novo seal genome assemblies generated by the Goodman/O'Connell labs and other colleagues in our Pinniped Genomes Consortium. These provide an opportunity to use comparative genomics to examine key aspects of pinniped ecology and evolution including physiological adaptations underpinning different life-history strategies and among species variation in disease susceptibility. We will use a variety of genomic approaches including de novo sequencing of seal genomes, and population genetic studies at the genomic level. In particular, we are interested in the genomic basis of differences in lactation strategies between different pinniped species, and these allow pinniped to exploit different environments and niches. More details on the project here: <https://panorama-dtp.ac.uk/research/the-evolutionary-genomics-of-life-history-adaptations-and-disease-susceptibility-in-pinnipeds/>

What we offer: The student can expect to gain experience in cutting edge DNA sequencing and genomics methods, together with developing skills in bioinformatics, comparative genomics, molecular evolution and population genetics analysis. There will be opportunities to visit collaborators from the Pinniped Genomes consortium in Denmark and Finland. The position is fully funded (stipend, fees and contribution to research costs) for 3.5 years. We offer a vibrant graduate student community and training in a wide range of transferable skills. Leeds is one of the most popular student cities in the UK with excellent cultural and entertainment infrastructure, as well as great access to national parks and the coast.

Who we're looking for: We seek a bright and motivated student with an Honours degree and/or Masters in a topic relating to Biology, Zoology, Ecology, Genetics, Biodiversity, Evolution, Bioinformatics, Maths & Biology etc. An interest in working at the interface of ecology, biodiversity and population/evolutionary genomics is important. Prior experience of bioinformatics is helpful but not essential for the right candidate. However, an interest in developing skills in bioinformatics and computing, and/or a demonstrated aptitude for coding or quantitative skills will give applicants an edge.

How to apply: Feel free to send informal inquiries by email to Simon Goodman (s.j.goodman@leeds.ac.uk). Full details on the application process can be found at

here - <https://panorama-dtp.ac.uk/how-to-apply/> Dr Simon Goodman School of Biology Manton Building University of Leeds Woodhouse Lane Leeds, LS2 9JT, UK

Tel: +44-(0)113-3432561, Fax: +44-(0)113-3432835 Email: s.j.goodman@leeds.ac.uk Web: <http://www.goodmanlab.org/> Skype: [simon.j.goodman](https://www.skype.com/user/simon.j.goodman) Twitter: @DrSimon_Goodman

Simon Goodman <S.J.Goodman@leeds.ac.uk>

ULethbridge InsectMicrobiome

We have an opening for a MSc student starting May 2022 to study the gut microbiome of carabid beetles (Coleoptera: Carabidae).

About 400 species of carabid beetles form an abundant and diverse assemblage in agricultural systems throughout the Canadian Prairies. Most of these species are considered beneficial by virtue of being parasitoids or predators of pest insects, or by feeding on weed seeds. The taxonomy, distribution and life-history for most of these beetles is well-known, and large numbers of specimens can be readily collected with use of pitfall traps. Because of these features, carabid beetles have been extensively studied as biological indicators of environmental change.

The gut microbiome of insects plays a critical role in the breakdown and assimilation of food items by the host. Factors that affect the microbiome (e.g., diet, chemicals residues, temperature) can influence the survival and reproduction fitness of the host and the ecosystem services that they provide. Few studies have described the gut microbiome of carabid species.

The proposed research will use next generation sequencing methods to compare the gut microbiome of selected carabid species representing different trophic levels (e.g., parasitoid, predator, seed-feeder) under different conditions such as diet, crop type (e.g., cereal, oilseed), and exposure to agricultural chemicals (e.g., herbicides, fungicides).

Knowledge and expertise on next generation sequencing methods, bioinformatics and microbial communities is an asset. This project has broad applications for research in water, soil, crop and livestock systems.

The successful applicant will be co-supervised by Drs. Theresa Burg <<https://directory.uleth.ca/>

users/theresa.burg > (Department of Biological Sciences, University of Lethbridge) and Kevin Floate < <https://profil-profiles.science.gc.ca/en/profile/dr-kevin-floate> > (Lethbridge Research and Development Centre, Agriculture and Agri-Food Canada).

Students interested in pursuing this opportunity are encouraged to send an email to Dr. Theresa Burg (theresa.burg@uleth.ca) before Jan 10 2022. Applications received after this date will not be considered.

“Burg, Theresa” <theresa.burg@uleth.ca>

UMainz EvolutionaryBiology

PhD position in Evolutionary Biology

Role of gene regulation in the social control of queen behavioral specialization in ants

Registration deadline: 20 January 2022 Application deadline: 27 January 2022

The Libbrecht group at the Johannes Gutenberg University of Mainz (Germany) is offering a 3-year PhD position (DFG, fully funded with possibility of extension, 65% TVL E13) to study the role of gene regulation in the social control of queen behavioral specialization in ants. The PhD student will be supervised by Romain Libbrecht (JGU Mainz) in collaboration with Joe Colgan (JGU Mainz), Renjī $\frac{1}{2}$ Ketting (IMB Mainz) and Franjo Weissing (University of Groningen), and will be integrated in the GenEvo research training program (<https://www.genevo-rtg.de/>).

Division of labor between specialized castes is central to the functioning and evolution of insect societies.

Queens monopolize reproduction, while workers perform all the tasks necessary to maintain the colony. Queens are typically seen as egg production units, to the point where their function in insect societies has been compared to that of the germline in multicellular organisms. Some of our recent work has challenged this longstanding view by revealing unexpected flexibility in queens of the black garden ant *Lasius niger*. We have shown that the presence of workers inhibits brood care behavior in founding queens. Moreover, we found that removing workers from established colonies caused old queens to revert to expressing brood care. These results indicate that the presence of workers not only initiates, but also maintains the behavioral specialization of queens that can live up to 30 years. As a means to understand the

molecular basis of queen behavioral specialization, we have also performed brain RNAseq to identify genes that differ in expression between queens with and without workers. In this project, we will ask the question: What are the gene regulatory mechanisms that regulate the gene expression changes underlying the social control of queen brood care behavior? The project will include empirical and theoretical components. The empirical investigations will involve the collection and experimental manipulations of ant colonies, extensive behavioral analyses, RNAi knockdown of candidate genes, molecular biology techniques, sequencing technologies (e.g., RNAseq, WGBS, ChIPseq) and associated bioinformatics analyses. The theoretical aspects will be developed in collaboration with Franjo Weissing, including via a research stay in his group at the University of Groningen.

We are looking for a highly motivated student with a Master degree (or equivalent) in biology, good English skills, and a keen interest in evolutionary biology. Previous experience with social insects, molecular biology, statistics and bioinformatics is advantageous, but not required. The successful applicant will join an international, interactive, dynamic and English-speaking scientific environment in a brand new building with access to state-of-the-art, newly equipped laboratories and climate-controlled rooms. The JGU of Mainz hosts many excellent scientific institutions, and Mainz is a historic city located on the Rhine River with a large student population and a rich social and cultural life.

Interested candidates should register to the IPP (<https://ipp2.imb.de/registration>) before 20 January 2022 and complete their application before 27 January 2022. Informal enquiries should be sent to Dr. Romain Libbrecht (romain.libbrecht@uni-mainz.de).

The starting date for the position is 1 July 2022. The Johannes Gutenberg University of Mainz is interested in increasing the number of women in science. Applications from women are therefore strongly encouraged. In addition, qualified candidates with disabilities will be preferred.

Dr. Romain Libbrecht

Assistant Professor / Junior Group Leader

Institute of Organismic and Molecular Evolution Johannes Gutenberg University

Mainz, Germany

+49 6131 3927852

<https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/group-libbrecht/> “Libbrecht, Dr. Romain” <rllibrec@uni-mainz.de> “Libbrecht, Dr.

Romain” <rllibrec@uni-mainz.de>

UMassachusetts Lowell EvolGenomics

Position: UMassLowell EvolutionaryGenomics Bioinformatics

A 4-year PhD position in evolutionary genomics and bioinformatics at the University of Massachusetts Lowell.

We are seeking a motivated and enthusiastic PhD student who wishes to apply bioinformatic approaches to study evolutionary genomics and structural variation (starting Fall 2022).

The position will make use of sequencing datasets to study the regulation and divergence of new genes across populations and species, including sticklebacks. The student will use short-read and long-read sequencing datasets and apply approaches in population and comparative genomics, transcriptomics, and epigenomics. This work will suit a highly motivated and curious student who has strong computational and analytical skills with a solid understanding of evolutionary processes. The 4-year position will be a blend of wet lab and computational work in a team setting with some educational outreach, so a desire to work collaboratively and take a leadership role to train mentees is essential. The student will be encouraged to develop and explore their own research questions using the available datasets. Experience with NGS approaches and/or bioinformatics is an asset but not required.

The lab (fredericchain.weebly.com) is in the Department of Biological Sciences at the University of Massachusetts Lowell. We are committed to justice, equity, diversity, and inclusion and we welcome applications from all backgrounds, in particular students from underrepresented groups in science. The University of Massachusetts Lowell has a diverse student population of 18,000 undergraduate and graduate students, serving a high proportion of first-generation college students (41%). The University has strong ties to the community of Lowell, a mid-sized city with a diverse population located 25 miles northwest of Boston and within two hours of mountains and coastline beaches. Information about the Department is available at <https://www.uml.edu/Sciences/biology/>. To apply, please send a CV/resume and a cover letter that includes a statement of interest and relevant experience to frederic.chain[at]uml.edu. For further details

or any questions, interested students are encouraged to send an informal e-mail.

Review of applications will start January 31st and continue until the position is filled.

“Chain, Frederic J” <Frederic.Chain@uml.edu>

UMemphis PlantEvolutionGenomics

Graduate position, MS or PhD, Plant Evolution and Genomics

Jennifer Mandel and lab members (mandel-lab.org) at the University of Memphis invite applicants for PhD or MS positions (starting Fall 2022). Our group studies sunflowers and their relatives to understand mechanisms that drive and maintain biodiversity. We investigate the genetic and genomic basis of phenotypic diversity both in natural and agricultural species. Students will have an opportunity to work on research from a broad set of areas centered around plant biodiversity, evolution, and genomics. The lab is committed to justice, equity, diversity, and inclusion and welcomes applications from members of historically excluded groups. Please send a CV/resume with a short statement of interest (less than 1-page) to jmandel[at]memphis.edu with subject line Fall 2022 graduate interest. The deadline to be considered for Graduate Teaching Assistantships (which includes stipend and tuition) is Feb. 1, 2022. <https://www.memphis.edu/biology/graduate/> The University of Memphis has invested heavily in growing research, STEM education, and achieving Carnegie R1 status over the past 10 years, with R1 status achieved in December 2021. The UofM serves a diverse student population of 21,591 (Fall 2021), including 18,409 undergraduate and 3,182 graduate and professional students. The undergraduate population is approximately 61% female, 45% white/non-Hispanic, 34% Black, 7% Hispanic and 15% from other ethnic groups, multi-racial, or international. The graduate student population is 64% female, 46% white/non-Hispanic, 29% Black, 4% Hispanic, 4% Asian, and 17% other ethnic groups, multi-racial, or international. <https://www.memphis.edu/> The Mandel lab is in the Department of Biological Sciences, which currently consists of over 30 research or teaching faculty members working in diverse subdisciplines of biology. Numerous University of Memphis research centers and facilities such as the Center for Biodiversity Research, Data Science Research Cluster, High-Performance Computing Facility, Integrated Microscopy Center, and the

ployer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities.

The University of Muenster is committed to employing more staff with disabilities. Candidates with recognised severe disabilities who have equivalent qualifications are given preference in hiring decisions.

Are you interested?

Then we look forward to receiving your application, written in English, in one single pdf file by 15 December 2021. Applications should be sent to Dr Robert Peuß at robertpeuss@uni-muenster.de. Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about university degrees, research experience

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UMuenster SticklebackTapeworm

The Institute for Evolution and Biodiversity at the University of Münster, Germany, is seeking to fill the position of a

Doctoral Student (Ph.D position)

(salary level TV-L E 13)

for the externally funded project SFB/TRR 212 at the earliest possible date. We are offering a fixed-term position (65%) for 3 years.

Your tasks:

The position is part of the Collaborative Research Centre (SFB/TRR 212) entitled: A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3), as granted by the German Research Foundation (DFG).

This PhD project deals with the ecological and evolutionary effects of parasite virulence. In this project,

you will investigate the niche construction effects of a trophically transmitted tapeworm parasite (*Schistocephalus solidus*) on individual three-spined stickleback fish. The project aims to show how these effects cascade from the individual to the ecosystem level and alter eco-evolutionary dynamics. The successful candidate will be involved in mesocosm experiments to investigate how parasite virulence affects individual trophic specialisation of the hosts. We also aim to identify the physiological and metabolic traits associated with these individual differences. The successful candidate will further take advantage of transcriptomic datasets to identify the immuno-physiological traits associated with host niche individualisation, and contribute to the development of computational models that will bridge the gap between individual, population, and community processes.

Our expectations:

Applicants should be highly motivated scientists of any nationality, who are interested in interdisciplinary work. They should have the equivalent of a master degree in biology, preferentially with a focus on evolution and ecology, or related fields. A background, and ideally some experience, in any of the following areas will be useful: fish handling and care, limnology, molecular skills, individual-based models, as well as a good understanding of statistics. Applicants should have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement.

Advantages for you:

The University of Münster is a large vibrant university hosting a number of excellent scientific institutions (<http://www.uni-muenster.de/en/>). The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution. The successful candidate will join the team of Professor Joachim Kurtz, focussing on host-parasite coevolution and ecological immunology. As a part of the Collaborative Research Centre SFB/TRR 212 (https://www.uni-bielefeld.de/fakultaeten/biologie/-forschung/verbuende/sfb_nc3/), the project will involve intensive collaboration with consortium partners at the Universities of Münster and Bielefeld. The town of Münster itself has many students and presents a dynamic environment with many cultural and social events throughout the year (<http://www.muenster.de/en/>).

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of

women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities.

The University of Münster is committed to employing more staff with disabilities. Candidates with recognised severe disabilities who have equivalent qualifications are given preference in hiring decisions.

Are you interested?

Then we look forward to receiving your application, written in English, in one single pdf file by 15 December 2021 at Dr. Jaime Anaya-Rojas (jaime.anaya-rojas@uni-muenster.de). Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about university degrees, research experience and publications, and 3) contact details of at least two referees.

“Kurtz, Joachim” <joachim.kurtz@uni-muenster.de>

UMuenster Stickleback Tapeworm Evolution

NEW DEADLINE: January 13, 2022

The Institute for Evolution and Biodiversity at the University of Münster, Germany, is seeking to fill the position of a

Doctoral Student (Ph.D position)

(salary level TV-L E 13)

for the externally funded project SFB/TRR 212 at the earliest possible date. We are offering a fixed-term position (65%) for 3 years.

Your tasks:

The position is part of the Collaborative Research Centre (SFB/TRR 212) entitled: A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3), as granted by the German Research Foundation (DFG).

This PhD project deals with the ecological and evolutionary effects of parasite virulence. In this project, you will investigate the niche construction effects of a trophically transmitted tapeworm parasite (*Schistocephalus solidus*) on individual three-spined stickleback

fish. The project aims to show how these effects cascade from the individual to the ecosystem level and alter eco-evolutionary dynamics. The successful candidate will be involved in mesocosm experiments to investigate how parasite virulence affects individual trophic specialisation of the hosts. We also aim to identify the physiological and metabolic traits associated with these individual differences. The successful candidate will further take advantage of transcriptomic datasets to identify the immuno-physiological traits associated with host niche individualisation, and contribute to the development of computational models that will bridge the gap between individual, population, and community processes.

Our expectations:

Applicants should be highly motivated scientists of any nationality, who are interested in interdisciplinary work. They should have the equivalent of a master degree in biology, preferentially with a focus on evolution and ecology, or related fields. A background, and ideally some experience, in any of the following areas will be useful: fish handling and care, limnology, molecular skills, individual-based models, as well as a good understanding of statistics. Applicants should have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement.

Advantages for you:

The University of Münster is a large vibrant university hosting a number of excellent scientific institutions (<http://www.uni-muenster.de/en/>). The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution. The successful candidate will join the team of Professor Joachim Kurtz, focussing on host-parasite coevolution and ecological immunology. As a part of the Collaborative Research Centre SFB/TRR 212 (https://www.uni-bielefeld.de/fakultaeten/biologie/-forschung/verbuende/sfb_nc3/), the project will involve intensive collaboration with consortium partners at the Universities of Münster and Bielefeld. The town of Münster itself has many students and presents a dynamic environment with many cultural and social events throughout the year (<http://www.muenster.de/en/>).

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Then we look forward to receiving your application, written in English, in one single pdf file by 13 January 2022 at Dr. Jaime Anaya-Rojas (jaime.anaya-rojas@uni-muenster.de). Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about university degrees, research experience and publications, and 3) contact details of at least two referees.

“Kurtz, Joachim” <joachim.kurtz@uni-muenster.de>

UNebraska Omaha EcologyEvolution

The Department of Biology at the University of Nebraska Omaha (UNO) is seeking to recruit students for our Master’s degree program. We provide support through teaching assistantships (which include tuition waivers), as well as through faculty research grants. In addition, research and summer support funds are available on a competitive basis. UNO is located in the heart of the greater Omaha metropolitan area (over 930,000 people), and UNO currently enrolls approximately 3,000 graduate students and 15,500 undergraduates. Our departmental program covers all levels of organization within biology. Faculty with interests in conservation, ecology, behavior, restoration, and evolution include:

Paul Ayayee: Host-microbe interactions and Microbial ecology (<https://www.unomaha.edu/college-of-arts-and-sciences/biology/about-us/directory/paul-ayayee.php>)

Tom Bragg: plant community diversity/fire ecology (tbragg@unomaha.edu)

Dean Castillo Evolutionary genetics of reproduction, mating behaviors, and speciation. <https://castillolab.github.io/> (deancastillo@unomaha.edu)

Tim Dickson: prairie and savanna restoration, and ecosystem services resulting from restoration (<http://GrasslandEcology.com>)

John Hribljan: Wetland ecology and restoration (jhriljan@unomaha.edu)

Roxi Kellar: plant systematics, biodiversity, and plant invasion genomics (<https://www.unomaha.edu/college-of-arts-and-sciences/kellar-lab/index.php>)

David Manning: stream ecology and water quality (davidmanning@unomaha.edu)

John McCarty: conservation and ecology of birds (<https://bit.ly/2Ce151K>)

Claudia Rauter: behavioral ecology

John Sproul: Repetitive DNA genomics, insect biodiversity, rapid genome evolution, species delimitation (jsproul@unomaha.edu)

Dean Castillo <dean.castle@gmail.com>

UPorto AdaptationSpeciationLittorina

We are looking for candidates interested in applying for a 4-years PhD fellowship from the Portuguese Science Foundation (FCT) on adaptation and speciation in Marine snails (*Littorina saxatilis*, *L. fabalis* and *L. obtusata*). We are seeking a highly motivated and independent person with a scientific background and interest in evolutionary biology, fascinated by problem-solving, strong teamwork skills, flexibility in learning new tasks and concepts, and good data handling and communication (English) skills.

The student will have the possibility to design her/his own PhD project within the main topics of interest in our lab (<https://rmigueldefaria.wixsite.com/farialab-1>; <https://cibio.up.pt/en/groups/evolutionary-genetics-and-genomics-evolgen/>) including the role of chromosomal inversions in adaptation and speciation; the genetic basis of parallel ecotype evolution; adaptation to crab predation in the context of climate change, and the genomic basis of shell colour polymorphism, among others. The project will likely involve the use of interdisciplinary approaches, including a strong genomics component (bioinformatics skills for NGS data analysis), morphological and ecological analyses, as well as demographic modelling, to test for the role of natural selection and gene flow in the diversification within this system.

Student will be supervised by researchers working evolutionary genomics of adaptation and speciation, includ-

ing myself (<https://scholar.google.com/citations?user=ubDybpQAAAAJ&hl=en>; <https://orcid.org/0000-0001-6635-685X>; <https://rmigueldefaria.wixsite.com/farialab-1>) and two co-supervisors (to be defined based on the selected applicant interests). The student will work in close collaboration with an enthusiastic international network of researchers in evolutionary genomics of adaptation and speciation in *Littorina* (<https://littorina.group.shef.ac.uk/>; including Roger Butlin from the University of Sheffield, UK; Kerstin Johannesson from the University of Gothenburg, Sweden; Anja Westram from IST, Austria; and Juan Galindo, University of Vigo; among others) and will be integrated in a very dynamic, interactive and international research group (Evolutionary Genetics and Genomics, <https://cibio.up.pt/research-groups-1/details/evolgen/team>) led by Miguel Carneiro (<https://scholar.google.pt/citations?user=onCfzJ4AAAAJ&hl=pt-PT>), at CIBIO/InBIO (<https://cibio.up.pt/en/>), a laboratory of excellence in the study of Biodiversity and Evolutionary Biology.

The selected candidate will apply for a FCT PhD fellowship scheme at the beginning of 2022.

If funded, the student is expected to enrol in a PhD program at the University of Porto (e.g. BIODIV: <https://www.biodiv.pt/en/>), one of the best Portuguese universities, which hosts a diverse community of international students. Due to FCT rules, only citizens from other member-states of the European Union, third-party states citizens, stateless individuals or citizens holding a political refugee status can apply to FCT fellowships. Candidates should have a completed BSc or MSc degree by the beginning of 2022, when they will apply for the PhD fellowship. If successful, the student is expected to start the PhD before the end of 2022.

Highly motivated students should contact me (rui.faria@cibio.up.pt), including a letter explaining the motivation to pursue a PhD on the above-mentioned topics and describing their scientific expertise, the CV, as well as the name and contact of two references. Please submit your applications until the 22nd of January 2022. Selection results will be communicated until the end of January.

Rui Faria, PhD

Researcher at: 1. CIBIO/InBIO, Research Center on Biodiversity and Genetic Resources University of Porto, Portugal
Visiting Researcher at: 2. Department of Animal and Plant Sciences University of Sheffield, United Kingdom
3. Ciimar, Interdisciplinary Centre of Marine and Environmental Research University of Porto, Portugal

Rui M Macieira De Faria

<r.macieiradefaria@sheffield.ac.uk>

UPotsdam MiceCulturalEvolution

PhD position at the University of Potsdam and Max Planck Institute for Evolutionary Biology (Germany)

Background Innovation is the ability to produce new behaviours or to apply novel solutions to old problems, introducing novel variants into a population's behavioural repertoire. While individual animals often produce innovations, only a few of these novel behavioural variants are transmitted, maintained, adopted and integrated in the population's repertoire. The interplay between individual innovation propensity, behavioural/cognitive make-up of the innovator and observer(s), as well as the strength of their bond, could determine the spread and maintenance of innovations in a population, which could lead to the establishment of local traditions and cultures.

In this project we aim to analyse the interplay between personality, innovation propensity and spread of innovations in house mice (*Mus musculus domesticus*) living under semi-natural conditions. We will determine the influence of individual (e.g. rank, sex) and social profile of innovator and observer in the spread of innovations across the population, to increase our understanding of the role of individual characteristics in the diffusion of innovations within populations. We will also investigate the evolutionary importance of innovativeness by assessing the impact on natural and sexual selection.

To strengthen our team and conduct this project, we are looking for a PhD candidate/Scientific Researcher (f/m/d) This project was jointly developed by the University of Potsdam and the Max Planck Institute for Evolutionary Biology, and is fully funded by the German Science Foundation (DFG) for a period of 3 years (36 months) with a salary of 65% TVLöD-13. The Institute for Biochemistry and Biology (IBB) is the largest institute within the Faculty of Science of the University of Potsdam. The research activities of the IBB range from Molecular Biology, to Plant and Systems Biology, to Ecology and Evolution. Within the IBB, the Animal Ecology Group employs different ecological, life-history and behavioural tools to better understand the evolutionary adaptation of animals to their environment. The Max Planck Institute for Evolutionary Biology in Plön (Schleswig-Holstein) consists of three departments: Evolutionary Genetics, Evolutionary Theory, and Micro-

bial Population Biology. It conducts basic research to explain fundamental processes in evolutionary biology, such as ecological adaptations, the origin of sexuality, or the evolution of cooperativity.

We expect from you - A successfully completed university degree (Master degree) in the field of animal behaviour, cognition or comparable. - Proven experience in collecting and analysing data from direct behavioural observations. - Excellent knowledge of English and prior experience in the production of scientific texts.

- Very good competence in working with animals. - Experience in data analysis with R. - Prior experience in conducting social network analyses is desirable but not required.

- Good self-management and solution-oriented work style, very high communication skills and teamwork ability. - Enthusiasm for working in an international environment.

We offer you: - An exciting interdisciplinary and international working environment. - Assistance with immigration and employment paperwork by our Welcome Centre. - The opportunity to conduct your PhD in this program, be involved in all parts of the project and have the resulting papers contribute to your doctoral thesis. You will be employed in the Animal Ecology research group at the University of Potsdam, while the data collection will take place at the Max Planck Institute for Evolutionary Biology in Plön, where the infrastructure necessary to this project is located. - Full integration in the activities of the Animal Ecology Group (UP) and Behavioural Ecology of Individual Differences (MPI) Research Group, and the chance to enjoy the vibrant international research environment of both institutions. - Possibility to conduct the last year of the program either in Potsdam or Plön.

Application Applications can be sent via email starting now until 21st January 2022. Applications should consist of one PDF document including the following documents: - Cover letter stating your interest in the PhD project and a summary of your experiences relevant for the project. - Names of three potential referees with contact information (affiliation, e-mail, phone number). - Curriculum Vitae. - Copies of academic degree certificates and high school diploma (including marks). - Any documents certifying further skills (e.g. workshops visited, completed courses, etc.) relevant for the project.

Suitable applicants will be contacted and asked to provide a short essay about a topic relevant to the project. Interviews for the position will be held afterwards, around the beginning of February 2022, probably as

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

UppsalaU Y-chromosomeEvolution

A 4-year PhD position is available within evolutionary genetics at the Department of Ecology and Genetics (Evolutionary Biology program), Uppsala University, Sweden

This project will investigate the evolution of Y chromosome within the conceptual framework of sexual antagonism. It will involve long-term experimental evolution methods as well as phylogenetic and comparative transcriptomic analysis to investigate the origins, maintenance and function of non-neutral genetic variation in a heteromorphic Y chromosome. The project utilizes the seed beetle *Callosobruchus maculatus* where we have recently discovered unusually high amount on Y-linked variation important for male fitness related traits. Using experimental evolution, the plan is to test for negative frequency dependent selection on Y haplotypes under varying sexual selection and resource competition conditions. RNA-sequencing will be utilized to examine the role of epistasis in Y-linked regulatory variation affecting gene expression. The project will also investigate the frequency of different Y-haplotypes in the natural populations of *C. maculatus* and examine their evolution across seed beetle species using phylogenetic analysis. The PhD student position includes research, courses and literature studies.

This position is available in the group of Assist. Prof. Elina Immonen (email: Elina.immonen@ebc.uu.se)

Lab website: <https://immonenelina.wordpress.com> Application deadline: 31st Jan 2022

Further information and how to apply: <https://www.uu.se/en/about-uu/join-us/details/?positionId=457586> Uppsala is a great town to live in, and the Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to studies of ecosystems. For more information, see <http://www.ieg.uu.se> N?r du har kontakt med oss p? Uppsala universitet med e-post s? inneb?r det att vi behandlar dina personuppgifter. F?r att l?sa mer om hur vi g?r det kan du l?sa h?r: <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> Elina Immonen <elina.immonen@ebc.uu.se>

USouthBohemia AvianConservation

Social behaviour, demography and conservation in shorebirds PhD studentship based in Eeské Budijovice, Czech Republic 2022-2025 Supervisors: Dr Vojtich Kubelka (Uni. of South Bohemia, CZ) Prof Tamás Székely (Uni. of Bath, UK)

Sex roles (i.e. courtship, competition for mates, pair bonding and parenting) are among the most diverse social behaviour. Recent research is uncovering key elements of sex role variation, but significant gaps remain. Appropriate sexual behaviour is essential for reproduction, and thus understanding the causes and implications of sex roles are at the core of evolutionary biology and fundamental for the study of life history evolution, physiology and population biology. Understanding sex roles and demography (reproduction and mortality rates) is also important for biodiversity conservation since disruptions to normal sexual behaviour due to environmental changes reduce the viability of wild populations.

Our group is running an international project *ÁLVONAL* Shorebird Science: <https://elvonalshorebirds.com/> with teams distributed worldwide to investigate sex role evolution in shorebirds. This PhD project will focus on sex role behaviour and demography in shorebirds. Using behavioural observations in wild populations it will investigate causes of courtship behaviour, pair bonding and parenting. The PhD student will test whether (i) sex role behaviours are induced by ambient environment, demographic parameters or social environment, (ii) explore the relationship between different sex role components, and (iii) test the fitness implications of sex role variations. We are also interested in the conservation implications of shorebird field biology and the particular targeting of the PhD project will be developed together with a successful applicant.

The ideal candidate has a strong interest in evolutionary biology, behavioural ecology and field biology, willing to work in remote areas, e.g. Arctic regions, South America, South Africa or elsewhere. He/she needs to have a

solid background in data analyses preferably in R, and statistical modelling. A condition of the application is a Master degree (or equivalent) in biology, zoology or a similar subject. Experience in field ornithology and bird ringing or the use of comparative methods is desirable but not essential. The studentship can start during March - September 2022. We are preferably seeking candidates willing to raise their own funding but there are other options too.

Eeské Budijovice is a vibrant medium-sized city and centre of South Bohemian region with an international university community. The University of South Bohemia is the biggest higher education institution in the region with more than 9,000 students, numerous leading departments in natural sciences and field research stations at Svalbard or Papua New Guinea. Five institutes of the Czech Academy of Sciences are situated on the same campus, forming the Biological Centre and representing outstanding cooperation opportunities. The surrounding of Eeské Budijovice has diverse natural and cultural landscapes, including *Áumava* National Park, two UN-ESCO biosphere reserves and numerous protected areas with impressive wildlife.

Interested candidates should contact Vojtich Kubelka kubelkav@gmail.com. Applications that include a CV (max 3 pages) and a max 2 pages cover letter with personal motivation and the name and contact details of two references (both documents in English) should be sent to Vojtich Kubelka before the deadline.

Deadline of application: 15 December 2021.

Selected References Carmona-Isunza, M C, C Küpper, M A Serrano-Meneses & T. Székely. 2015. Courtship behavior differs between monogamous and polygamous plovers. *Behavioral Ecology & Sociobiology* 69: 2035-2042.

Liker A., Freckleton R. P. & Székely T. 2015: The evolution of sex roles in birds is related to adult sex ratio. *Nature Communications* 4 (1587).

Vincze, O., A. Kosztolányi, Á & T. Székely. 2016. Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. *Global Ecology and Biogeography* 26: 347-358.

Kubelka V., Áálek M., Tomkovich P., Végvári Z., Freckleton R. P. & Székely T. 2018: Global pattern of nest predation is disrupted by climate change in shorebirds. *Science* 362: 680-683.

Kubelka V., Sandercock B., Székely T. & Freckleton R. P. 2021: Animal migration to northern latitudes: environmental changes and increasing threats. *Trends in Ecology & Evolution* DOI: 10.1016/j.tree.2021.08.010

“hajkoa01@prf.jcu.cz” <hajkoa01@prf.jcu.cz>

UtahStateU SocialBehaviorLifeHis- toryEvolutionBees

PhD position in bee social behavior and life history evolution

The Kapheim Lab (www.kapheimlab.com) at Utah State University is recruiting a PhD student to study the relationship between life history evolution and social behavior in bees starting Fall 2022. The project will focus on the facultatively eusocial bee, *Megalopta genalis*, with a combination of behavioral field work, physiological assays, and analyses of gene expression. Field work will be conducted at the Smithsonian Tropical Research Institute in Panama (<https://stri.si.edu/>). Potential students interested in social evolution and with a desire to develop skills in behavioral ecology, physiology, and bioinformatics are encouraged to apply.

The position comes with a competitive support package including research and travel funding, salary, tuition waivers, and health insurance. The position will be open until filled, but applications should be completed by Dec. 15 to be included in the Department of Biology Recruiting events (https://biology.usu.edu/education/-graduate-program/application_guideline).

The Kapheim Lab is a collaborative group of scientists who are committed to cultivating equity, diversity, and inclusion in academia while promoting professional, scientific, and personal growth for every member of our team. More information, including our Code of Conduct and mentoring policies can be found on the lab website. Potential applicants should please send an email to Dr. Kapheim (karen.kapheim@usu.edu) with a CV and brief statement of interest that describes why you are interested in the research and graduate school more generally. Please also feel free to email with any questions.

Karen M. Kapheim Associate Professor Department of Biology Utah State University 5305 Old Main Hill Logan, UT 84322 karen.kapheim@usu.edu www.kapheimlab.com she/her

Karen Kapheim <karen.kapheim@usu.edu>

UTasmania EvolutionPlantOsmoregulation

A PhD scholarship (\$28,854/year, full time for 3.5 years) is available for a project with the Centre of Excellence for Plant Success in Nature and Agriculture (<https://www.plantsuccess.org/>) at the University of Tasmania, focussing on the evolution of osmoregulation in plants.

The position is open to domestic and international candidates.

Applicants who hold a first-class Honours degree or equivalent qualifications and experience in plant physiology, molecular biology and/or genetics are encouraged to apply.

Full details are here:

<https://www.utas.edu.au/our-research/research-degrees/available-projects/science-technology-and-engineering/area/biological-sciences/evolution-of-osmoregulation-in-plants> Interested students can send their cover letter and CV to the Primary Supervisor: Frances.Sussmilch@utas.edu.au. This position will be co-supervised by Tim Brodribb and Steve Smith.

This email is confidential, and is for the intended recipient only. Access, disclosure, copying, distribution, or reliance on any of it by anyone outside the intended recipient organisation is prohibited and may be a criminal offence. Please delete if obtained in error and email confirmation to the sender. The views expressed in this email are not necessarily the views of the University of Tasmania, unless clearly intended otherwise.

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

UTurku ConservationBiology

Investigating conservation actions improving bird responses to climate warming in Europe

Application deadline: 31 January 2022. A fully funded 4-year PhD position in conservation biology is opened at the University of Turku (Finland).

Project background: How biodiversity will respond to

climate warming is one of the most challenging issues for conservation. Species can cope with climate warming by shifting their distributions or persist in local micro-refuges (Dawson et al. 2011), but these responses have been found insufficient to ensure long-term biodiversity conservation. Inside protected areas, species responses to climate warming are facilitated (Thomas et al. 2012; Gaget et al. 2021), but so far, we are ignorant of what actually are the conservation actions that causes protected areas to help species respond to climate change (Gaget et al. 2022). In other words: What would be the best conservation measures to set up a climate adaptation strategy? This project aims to answer this question for birds at the European level, by making a cost-effectiveness assessment of the conservation actions that affect species responses to climate warming, considering conservation priorities and species ecological niches. Bird responses to climate warming are currently insufficient and although birds are specifically targeted by European Union conservation policies, no specific conservation measures have been designated to facilitate their responses to climate warming. This project will thus contribute to our understanding of bird species responses to climate change, identify conservation actions improving their resilience or distribution change in response to climate warming and help planning more effective conservation measures for future protected areas.

PhD tasks: This four year PhD project will be situated at the University of Turku (Turku, Finland) and supervised by Dr. Elie Gaget and Prof Jon E. Brommer, in collaboration with Dr. Martin Jung from IIASA (Laxenburg, Austria). The project will use information about the management practices funded under the EU LIFE programme inside Natura 2000 protected areas, and 40,000 abundance time series of almost 450 bird species (breeding and non-breeding) across Europe. Using hierarchical modelling based on local abundance time series, the candidate will quantify past and forecast future population changes with regards to interactions between conservation measures and climate warming. The framework will take into account species habitat preferences, functional traits and shifts in ecological niches over time to provide additional context to the expected species population changes. The project will yield a minimum of four scientific publications and the results will be discussed with stakeholders in Europe.

Qualifications: Essential qualifications for this position are: (1) MSc in Biology, preferably with a Major in Ecology or related field; (2) quantitative skills and comfortable working in R; (3) strong communication skills, with abilities to speak and write in English. Desired qualifications include technical skills in one or more of

the following areas: (1) Handling large databases; (2) hierarchical modelling and/or species distribution models; (3) ornithology and/or protected area management. We are looking for a candidate with a strong interest in conservation biology, clear capacity to self-organize, and a communicative personality who works team-oriented.

Terms: The positions are open to domestic and international candidates and we encourage all qualified individuals to apply. Applications will be accepted until January 31, 2022. Start dates are flexible but will ideally be during the first six months of 2022. The PhD student will be supported by a scholarship of 30 000 €/year over four years (excluding tax) and will be covered by national health benefits. The position starts with a trial period of 6 months.

Place of work: The Ph.D. position is based in the Department of Biology situated in the main campus of the University of Turku (www.utu.fi), close to the centre of the city of Turku. The city of Turku is a small town that hosts two Universities with an active student life, and is situated in the south-west corner of Finland. Finland was in 2021 ranked as the happiest country in the world for the fourth year in a row in the World Happiness Report. The Ph.D. student will be part of a community of about 90 Ph.D. students in the Doctoral Program in Biology, Geography and Geology that provides additional support for completing the Ph.D. degree.

Applications should include: cover letter in English describing your motivation, research interests and previous relevant experience with respect to the above listed requirements; Curriculum vitae including contacts of two referents; copies of MSc/BSc/Diploma certificates. Interviews will be conducted in a virtual format in early February.

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UUm 2 FunctionalMicrobiomes

University of Ulm, Germany

Faculty of Biology

IMPALA-Project

The IMPALA project is an interdisciplinary project

studying the evolutionary ecology of ecosystem microbiomics. With a team consisting of a PostDoc and two PhD students, we will investigate how different fertilization regimes affect the evolutionary ecology of the functional microbiome of soil, plants and animals along a trophic chain in grasslands both in the field and in experimental mesocosms, paired with the development of microbiological screening tools and the functional analysis of bacteriocin-producing gene clusters. The team will be led by Profs. Simone Sommer & Lena Wilfert (vertebrate and invertebrate microbiomics), Patrick Schieler (plant microbiomics) and Christian Riedel (applied microbiology) at the University of Ulm, Germany.

We would like to recruit a PhD-Student in microbiology, focusing on the identification of gene clusters for (novel) antimicrobial peptides in the studied microbiomes (Riedel group). All positions will start from the 1st of March 2022 and the project runs for three years. The positions will be based at the University of Ulm, at the Institutes of Evolutionary Ecology and Conservation Genomics; Molecular Botany; and Microbiology and Biotechnology. Ulm is a delightful historic city on the Danube in Southwestern Germany; it is one hour from the Alps, Lake Constance, Munich and Stuttgart.

For further information, please contact us at impala@uni-ulm.de. The closing date is the 23rd of January 2022.

The job adverts with detailed information on profile and responsibilities, as well as the links to the online application system can be found here

- PhD-Student ' microbiology focus: < <https://stellenangebote.uni-ulm.de/jobposting/-20abe72245f18c2b73736c3a933e770abf06bf27>
> reference number 21157 <https://stellenangebote.uni-ulm.de/jobposting/-20abe72245f18c2b73736c3a933e770abf06bf27> Please note that applications have to be processed online!

University of Ulm, Germany

Faculty of Biology

IMPALA-Project

The IMPALA project is an interdisciplinary project studying the evolutionary ecology of ecosystem microbiomics. With a team consisting of a PostDoc and two PhD students, we will investigate how different fertilization regimes affect the evolutionary ecology of the functional microbiome of soil, plants and animals along a trophic chain in grasslands both in the field and in experimental mesocosms, paired with the development

of microbiological screening tools and the functional analysis of bacteriocin-producing gene clusters. The team will be led by Profs. Simone Sommer & Lena Wilfert (vertebrate and invertebrate microbiomics), Patrick Schieler (plant microbiomics) and Christian Riedel (applied microbiology) at the University of Ulm, Germany.

We would like to recruit a PhD-Student focusing on the functional analyses of plant root and flower microbiomes in interaction with animals (Schieler group) All positions will start from the 1st of March 2022 and the project runs for three years. The positions will be based at the University of Ulm, at the Institutes of Evolutionary Ecology and Conservation Genomics; Molecular Botany; and Microbiology and Biotechnology. Ulm is a delightful historic city on the Danube in Southwestern Germany; it is one hour from the Alps, Lake Constance, Munich and Stuttgart.

For further information, please contact us at impala@uni-ulm.de. The closing date is the 23rd of January 2022.

The job adverts with detailed information on profile and responsibilities, as well as the links to the online application system can be found here

- PhD-Student - plant focus: < <https://stellenangebote.uni-ulm.de/jobposting/-90f7a00022f7753c5bb8b5d9d493aef1815ea79e>
> reference number 21156 <https://stellenangebote.uni-ulm.de/jobposting/-90f7a00022f7753c5bb8b5d9d493aef1815ea79e> Please note that applications have to be processed online!

Lena Wilfert <lena.wilfert@uni-ulm.de>

U Vienna Bioinformatics

A fully funded PhD position (4 years) is open in the group for Computational Admixture Genomics at the Department for Evolutionary Anthropology, University of Vienna (Austria)

The new group for Computational Admixture Genomics studies admixture landscapes in genomes of multiple species. The main project of the PhD student will be to improve and/or develop methods to determine introgression in large datasets (humans and/or other primate species, from present-day as well as historical/ancient sources). This will rely on computational methods, and include demographic modeling, Bayesian methods, or

machine learning approaches. This position is funded as part of a VRG grant from the WWTF. Lab members have access to all necessary resources and excellent computational infrastructure at the new Biology Center of the university. The group is part of a multi-disciplinary Anthropology department which is currently expanding in evolutionary genetics and ancient DNA research. The prospective student should have a strong interest in computational approaches to evolutionary genomics, hold a Master's degree in bioinformatics, biology or a related field, and have some experience using computing clusters and bash/command line tools, ideally also in a programming language (R, python).

Further information: <https://martinkuhlwilm.wixsite.com/maku>, and <https://www.anthropology.at/people/martin-kuhlwilm> To apply: <https://vds-ecology-evolution.univie.ac.at/applicationvdssee/open-positions/> For informal queries: martin.kuhlwilm@univie.ac.at

Martin Kuhlwilm <martin.kuhlwilm@univie.ac.at>

UWestAlabama AquaticInfectiousDisease

Investigating the Evolution of an Emerging Aquatic Disease

Application deadline: 28 February, 2022 One NSF-funded MSc position (2-3 yrs) is available through The University of West Alabama https://www.nsf.gov/awardsearch/showAward?AWD_ID=1911457 Project Background: Join a collaborative team of biologists from Michigan State Univ., Mississippi State Univ., and the French Institute for Research and Development. Our research is designed to improve understanding of the evolutionary and ecological factors that influence the local emergence of Buruli Ulcer, a neglected tropical disease that affects wildlife and disadvantaged communities across five continents. [https://www.who.int/news-room/fact-sheets/detail/buruli-ulcer-\(mycobacterium-ulcerans-infection\)](https://www.who.int/news-room/fact-sheets/detail/buruli-ulcer-(mycobacterium-ulcerans-infection))

Our team is integrating respective expertise in quantitative ecology, entomology, ichthyology, microbiology, and phylogenetic systematics to test prevailing hypotheses about infectious disease ecology and evolution. Read more about this project at: www.evopath-amazonia.org
Job description: The primary training environment will be in the Laboratory of Aquatic Evolution (LAQE) at

The University of West Alabama: www.sandellab.org
Research in the LAQE is focused on the intersection of conservation biology and human health, and current students are involved in endangered species recovery, phylogenomics, and host-pathogen coevolution. Trainees are expected to participate in at least one field expedition to the Amazonian rainforest in French Guiana, expected to occur in summer and/or fall, 2022 and 2023. The selected student will acquire/improve skills in field sampling (including ichthyology), molecular biology, and bioinformatics. Additional opportunities for cross-training exist at Michigan State, where students will acquire skills in entomology, quantitative ecology, and ecological theory, and Mississippi State, where students will gain experience with bacterial cell culture and related assays. Students will complete a thesis in Conservation Biology (broadly defined) in time for MSc graduation by Spring/Fall 2024.

Benefits: Annual stipend is \$20,000 USD plus full tuition support and all travel expenses

Qualifications: We seek an ambitious, organized, and collegial BSc graduate of ecology, molecular biology, or related field. The selected student will have earned an undergraduate diploma by Spring 2022. The application package will demonstrate a passion for conservation biology, infectious disease biology, or coevolutionary ecology.

How to apply: Apply via email to msandel@uwa.edu Application emails will include the following attachments: 2-page statement of purpose detailing career goals and relevant life experiences Undergraduate transcript including cumulative GPA (unofficial is fine) List of three academic/professional references with email addresses

Additional reading: <https://academic.oup.com/femsre/advance-article-abstract/doi/10.1093/femsre/fuab045/6360977> <https://www.sciencedirect.com/science/article/pii/S2352771421001014> "Sandel, Michael" <msandel@uwa.edu>

UWyoming EvolutionaryEcol

PhD position intergrating evolutionary biology and ecological stoichiometry

The Wagner Lab (cewagnerlab.com) at the University of Wyoming is recruiting a PhD student to work on integrating ideas in evolutionary biology and ecological stoichiometry as part of the NSF-funded grant, Stochio-

metric Traits of Organisms In their Chemical Habitats (STOICH) project (<https://stoichproject.org/>). Specifically, the student will work on topics related to the evolution and assembly of stoichiometric traits in animal communities. We will use community datasets combined with information about environmental and organismal stoichiometry and phylogenetic data to better understand 1) how stoichiometric traits evolve and 2) the influence of stoichiometric traits on community assembly processes. The student will work within the context of our large, multi-institutional project integrating data on aquatic ecological stoichiometric data in the STOICH database, and will be part of a diverse, multidisciplinary team. There is considerable room for motivated students to shape research directions based upon individual interests within this research context. The student will work on diverse taxa, including macroinvertebrates and fishes, with opportunity to connect with several study systems that are the focus of work in the Wagner Lab and labs of STOICH project collaborators.

The Wagner Lab is committed to diversity and inclusion and particularly welcomes applications from historically underrepresented individuals. The University of Wyoming has strong research programs in ecology and evolutionary biology across multiple departments, including Botany, Zoology and Physiology, Ecosystem Science and Management, Plant Sciences. The student will join UW's Program in Ecology and Evolution, an interdepartmental PhD program (<http://www.uwyo.edu/-pie/>). The university is located in Laramie, a community in southeastern Wyoming that is nestled between the Laramie and Snowy Mountain ranges, which offer ample opportunity for skiing, climbing, hiking, and mountain biking. Laramie has a relatively low cost of living, is close to field sites across a wide variety of vegetation types from mixed grass prairie to alpine tundra, rivers and lakes, and is within easy driving distance of Colorado's Front Range corridor (Fort Collins, Boulder, and Denver).

To express interest in the position, please email Dr. Catherine ("Katie") Wagner (catherine.wagner@uwyo.edu) with the subject line "STOICH PhD Position" and include a CV and a brief cover letter describing your research background and motivation for interest in working on this project. Inquiries are welcome until the position is filled, but applicants are encouraged to write to express interest in the position before the end of December 2021.

"Catherine E. Wagner" <Catherine.Wagner@uwyo.edu>

Vienna 2 EvolutionaryBiology

Vienna.EvolutionaryBiology

Invasion dynamics of selfish DNA

Life is a struggle for survival where parasites prey on their hosts and hosts combat their parasites. Surprising to many, this battle also rages in our genomes. Parasitic DNA spreads in our genomes, even if this is harming our health. These parasitic sequences, also called transposable elements (TEs) have been remarkably successful, constituting more than 50% of our genomes.

TEs are closely related to viruses and frequently invade novel species, where they multiply while hosts struggle to suppress them. Eventually, most hosts succeed in downregulating the activity of the invading TE. It is however unclear how the host defense is established and what factors influence the silencing of TEs. To shed light on these important open questions we will investigate the invasions of several TE families in experimental *Drosophila* populations using cutting-edge technologies such as small RNA sequencing, RNA-Seq, and long-read sequencing (Oxford Nanopore).

This project will allow the student to work on an exciting topic with a young and international team, get in contact with cutting-edge technologies and receive first-rate training in bioinformatics. The project will involve 70% lab work and 30% computer work. Wet-lab experience (e.g. molecular cloning, PCR) and some programming skills (e.g. R, bash, Python) will be beneficial.

The salary is internationally competitive (14 times 2.237Euro before tax) and the position is located in the wonderful city of Vienna, which was for the tenth time elected as the most liveable city in the world.

Please apply by 3. Feb. 2022 Send your application (motivation letter, CV, two references) to Dr. Robert Kofler rokofer@gmail.com

Web pages:

<https://www.kofler.or.at/bioinformatic/> <https://www.vetmeduni.ac.at/populationsgenetik/forschung/-gruppe-kofler> Some literature

<https://genome.cshlp.org/content/early/2018/04/30/gr.228627.117> <https://academic.oup.com/mbe/article/36/7/1457/5435964> <https://academic.oup.com/mbe/article/38/4/1482/600871> —

Vienna.2.EvolutionaryBiology

Are piRNA clusters the central force limiting the abundance of selfish DNA?

Transposable elements (TEs) are stretches of parasitic DNA that multiply in our genomes. The genomes of most species are riddled with remnants of past TE invasions. Interestingly the TE composition differs dramatically among species, with some species having many TEs and others having very few. What is responsible for these pronounced differences among species? We still do not have an answer to this central open problem in evolutionary biology.

Here we will test a promising hypothesis. Computer simulations show that the size of piRNA clusters - genomic regions that produce small RNA that suppresses TEs - could be a major factor determining the abundance of TEs. In this project, we will probe the relationship between the abundance of TEs and the size of piRNA clusters in multiple *Drosophila* species using cutting-edge approaches such as small RNA sequencing, long-read sequencing (Oxford Nanopore), and population genetic simulations. We will complement this work by estimating the fitness consequences of TE insertions in experimental *Drosophila* populations.

This project will allow the student to work on an exciting topic with a young and international team, get in contact with cutting-edge technologies and receive first-rate training in bioinformatics. The project will involve 35% lab work and 65% computer work. Some programming skills (e.g. R, bash, Python) will be beneficial.

The salary is internationally competitive (14 times 2.237Euro before tax) and the position is located in the wonderful city of Vienna, which was for the tenth time elected as the most liveable city in the world.

Please apply by 3. Feb. 2022

Send your application (motivation letter, CV, two references) to Dr. Robert Kofler rokofler@gmail.com

Web pages:

<https://www.kofler.or.at/bioinformatic/> <https://www.vetmeduni.ac.at/populationsgenetik/forschung/gruppe-kofler> Some literature

<https://genome.cshlp.org/content/early/2018/04/30/gr.228627.117> <https://academic.oup.com/mbe/article/36/7/1457/5435964>

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Vienna PopulationGenetics

Reminder: Call for PhD students: apply by December 12, 2021

Start date: February 2022 (or later)

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vienna Graduate School of Population Genetics has been founded to provide a training opportunity for PhD students to build on this excellent on-site expertise.

We invite applications from highly motivated and outstanding students with a love for evolutionary research and a background in one of the following disciplines: evolutionary genetics, functional genetics, theoretical or experimental population genetics, bioinformatics, mathematics, statistics.

Topics include:

- Are piRNA clusters the central force limiting the abundance of selfish DNA?
- Evolution from de novo mutations - influence of elevated mutation rates.
- Evolution of sex-specific neuronal signaling.
- Identifying signatures of adaptation using time-series genomic and phenotypic data.
- Inference of selection signatures from time-series data.
- Invasion dynamics of selfish DNA
- Long-term dynamics of local *Drosophila* populations.
- Microbiome evolution in *Drosophila*.
- Studying speciation during experimental evolution.
- Temperature adaptation in *Drosophila*: phenotypic adaptation.

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by December 12, 2021 will be considered. Two letters of recommendation need to be sent directly by the referees.

Depending on the project, PhD degrees will be awarded either in genetics, mathematics or statistics. PhD students will receive a monthly salary based on currently 2.237,60 before tax according to the regulations of the Austrian Science Fund (FWF).

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at – Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at

<https://twitter.com/>

PopGenViennaPhD c/o Institut für Populationsgenetik

University of Veterinary Medicine, Vienna

T +43 1 25077 4302 (currently unavailable - use Skype instead: julia.hosp) julia.hosp@vetmeduni.ac.at

Veterinaerplatz 1, 1210 Vienna, Austria

Building HA

<http://www.vetmeduni.ac.at/en/population-genetics/> <https://twitter.com/PopGenVienna>

Julia Hosp <Julia.Hosp@vetmeduni.ac.at> Julia Hosp <Julia.Hosp@vetmeduni.ac.at>

Western WashingtonU YeastEvoGenetics

The Pollard lab at WWU is recruiting for a fully funded and NSF supported master's graduate position to study the evolutionary genetics of protein expression in budding yeast.

Applications are due February 1st 2022. Pollard Lab:—<https://biology.wwu.edu/people/pollard> Biology Department Graduate Program:—<https://biology.wwu.edu/biology-graduate-program> Graduate School Application:—<https://gradschool.wwu.edu/admissions-eligibility> Note: You must contact Dr. Pollard (pollard@wwu.edu) stating your interest in the position prior to applying in order for your application

to be fully considered.

The Pollard lab uses budding yeast mating pheromone response as a system to study how natural genetic variation shapes protein expression dynamics. We are seeking a new member of our team to work on projects related to mapping and characterizing polymorphisms acting in trans on protein synthesis and protein decay rates.

The Pollard lab and Biology Department—are devoted to creating an inclusive and equitable environment and are engaged in the process of addressing institutional racism and other oppressive biases that limit students, staff, and faculty and perpetuate social injustice. We especially encourage applications from women, people of color, people with disabilities, veterans, and other candidates from historically excluded backgrounds and underrepresented experiences.

Western Washington University, with over 16,000 students in seven colleges and the graduate school, is nationally recognized for its educational programs, students and faculty. The campus is located in Bellingham, Washington, a coastal community of 89,000 nestled between the Salish Sea's San Juan Islands and the Cascade Mountains. The city lies 90 miles north of Seattle and 60 miles south of Vancouver, British Columbia.—

Daniel A. Pollard, Ph.D (he/they)— Associate Professor— Western Washington University—

WWU Biology Department— Mail Stop 9160— 516 High Street— Bellingham, WA 98225-9160—

360.650.2152—(office)— pollard@wwu.edu— <https://biology.wwu.edu/people/pollard> Dan Pollard <pollard@wwu.edu>

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AMNH New York Marine Invert Curator

Job posting: Open-rank Curator and Professor in Marine Invertebrate Zoology, Division of Invertebrate Zoology, American Museum of Natural History

The Opportunity: The Division of Invertebrate Zoology at the American Museum of Natural History is seeking an outstanding colleague who uses collections to research marine invertebrate diversity and evolution to start on or after July 1, 2022. This is an open rank tenure-track/tenured appointment to be filled at the Assistant Curator and Assistant Professor, Associate Curator and Associate Professor, or Full Curator and Full Professor levels; career stage will be taken into consideration in application review. The successful candidate will have demonstrated scientific creativity and the ability to sustain an innovative research program focusing on the diversity and evolution of marine invertebrates. The successful candidate will have expertise in evolutionary and comparative biology approaches and a track record of effective interdisciplinary and inter-institutional collaborations and partnerships. The successful candidate will have a demonstrated history of extramural funding with high potential for continued support. The successful candidate will also be expected to advance the Museum's mission through a robust field expeditionary program and growth of new collections, and through enhancement of the existing collections.

Job responsibilities and expectations: The responsibilities of the position are to perform and supervise original scientific research on marine invertebrates, as well as to curate and build the relevant collections of Marine Invertebrates in the Division of Invertebrate Zoology.

The successful candidate is also expected to provide service to the Museum, which includes participation in the Richard Gilder Graduate School teaching and/or mentoring, advising programs in exhibition, education, and other forms of public outreach. The Museum places a high value on scholarship, as well as other factors that include collegiality, institutional citizenship, diversity, equity and inclusion. The Museum is committed to building a diverse community throughout science and education. Applicants are required to have a PhD or equivalent degree in biology, marine biology or related field by the time of the appointment.

About the AMNH: Since its founding in 1869, the Museum has advanced its mission to discover, interpret and disseminate information about the natural world and human cultures through wide-ranging programs of scientific research, education, and exhibition. Resources available at AMNH include world-class zoological collections with strong representation of Mollusca and Crustacea in the marine invertebrate collections; a wide range of optical, electron beam, and xray analytical tools including CT; experimental and specimen preparation laboratories; genomics lab facilities, including an ancient DNA and proteomics lab; and computational resources. The AMNH maintains active internal grant programs to support field research across many disciplines. The AMNH is a pioneer among museums in the western hemisphere with the Richard Gilder Graduate School offering a Ph.D. degree-granting in Comparative Biology, a program that combines training in theoretical areas with practical, hands-on work in the laboratory, and unparalleled opportunities to carry out collections-based and field research. The successful applicant will also have the opportunity to build on existing relationships with nearby collaborating institutions including Columbia University, City University of New York, and others.

To apply: Applications should consist of a single PDF

format document that includes: - Cover letter (max. 1 page) - Curriculum vitae - Research statement addressing past research and future plans (max. 5 pages, including figures and references) - Curatorial statement describing experience with collections and the vision of applicant's role in science (max. 2 pages) - Teaching, mentoring, exhibitions, and public outreach statement addressing the candidates' experience, approach, and goals in public engagement, student training and public engagement (max. 2 pages) - Statement of commitment and contributions to increasing diversity, equity, & inclusion in teaching, research, and/or museum settings (max. 2 pages) - Up to five significant publications - Names and contact information for three people who could provide letters of reference at the time of application submission.

All materials should be submitted to <https://careers.amnh.org/postings/2735>. Inquiries about the position should be directed to Estefania Rodriguez, Chair of the Search Committee (erodriguez@amnh.org). Consideration of applications will begin January 10, 2022, but applications will continue to be accepted after this date.

EEO Statement The American Museum of Natural History is an Equal Opportunity/Affirmative

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ArizonaStateU ResTechNEON Biodiversity

The Arizona State University (ASU) School of Life Sciences is seeking a Sample Preparator (Research Technician) for the National Ecological Observatory Network (NEON) Biorepository (<https://biorepo.neonscience.org/portal/>). NEON is expected to run for 30 years. For each project year, the NEON Biorepository at ASU will receive, process, store, and make available for research an average of 100,000 samples from more than 80 sites across the United States. We will facilitate this by creating a data portal to support discovery and tracking of sample occurrences and sample data linkages, sample transactions, and research use.

The NEON Sample Preparator will make critical contributions to the project through a variety of curatorial support and sample or specimen preparation and data publication tasks; focused mainly but not exclusively on mammal study skin and alcohol preparations and specimen digitization (~90%); and herbarium voucher preparations and digitization (~10%). The position therefore requires a relatively broad scope of research collection and sample preparation and data publication skills. Critical skills will revolve around preparing (small) mammal skins, skulls, skeletons, tissues, organs, and other partial samples, taking standard measurements, and other procedures that will maximize the long-term suitability of these NEON samples for varied research purposes.

Candidates who consider themselves well experienced or highly motivated to acquire these skills and hence complement the existing strengths of the NEON Biorepository team, are strongly encouraged to apply. An ability to develop new data products to leverage the research potential of NEON Biorepository samples with the greater community is highly desired.

For more information and to apply: 1. Go to: <https://cfo.asu.edu/applicant> 2. Select option: "Non-ASU Employees (Read More)" 3. Search for (job code): 74033BR

Or directly: https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25620&siteid=5494#jobDetails=4414010_5494 Inquiries to Laura Steger (lstege@asu.edu) and Nico Franz (nico.franz@asu.edu) are encouraged.

nico.franz@asu.edu

ArizonaStateU ResTech NEONBiorepository

NEON Biorepository Sample Preparator(Research Technician)

Job Description:

The Arizona State University (ASU) School of Life Sciences is seeking a Sample Preparator (Research Technician) for the National Ecological Observatory Network (NEON) Biorepository. NEON is expected to run for 30 years. For each project year, the NEON Biorepository at ASU will receive, process, store, and make available for research an average of 100,000 samples from more than 80 sites across the United States. We will facilitate this by creating a data portal to support discovery and

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Candidates who consider themselves well experienced or highly motivated to acquire these skills and hence complement the existing strengths of the NEON Biorepository team, are strongly encouraged to apply. An ability to develop new data products to leverage the research potential of NEON Biorepository samples with the greater community is highly desired.

The position is located in ASU's newly renovated Biocollections (Alameda Building), located 2 miles southwest of the main Tempe campus. In addition to housing nine natural history collections, the NEON Biorepository, and affiliated personnel, the facility includes spaces dedicated to student training and public education.

This is a grant funded position. Twenty months of funding are available; funding beyond this period will depend on successful continuation of the project and further support for this position.

Essential Duties

The Sample Preparator will work under the direct supervision of the NEON Environmental and Zoological Collections Manager and in close collaboration with informaticians, other collection managers, researchers, and students affiliated with the NEON Biorepository. The selected candidate will focus mainly on preparing whole, small mammal NEON specimens - each year approximately 350 specimens as study skins with skulls and 500 specimens for ethanol preservation. The former preparation method also requires maintenance of an in-house dermestid beetle colony. As time and needs indicate, they will also contribute to the preparation and digitization of terrestrial and aquatic vascular plant specimens (herbarium sheets and packets). Regular duties related to these tasks may include: physical transfer of collection objects into the NEON Biorepository sample infrastruc-

ture; maintenance of the collection organization; shared oversight of best practices; loan activities; improvement of research-relevant information; standard-compliant sample/specimen digitization and imaging, with dissemination via the NEON Biorepository data portal; joint training of undergraduate students and volunteers; and participation in direct or social media-based outreach activities. The production of value-added resources and other openly accessible biodiversity data products for NEON Biorepository samples will be strongly encouraged.

Although a large component of the position will be driven by daily sample preparation and digitization tasks, we will encourage and support the candidate's professional development in collection-based research and leadership broadly defined.

Minimum Qualifications

Bachelor's degree in a field appropriate to the area of assignment; OR, Four years research experience appropriate to the area of assignment; OR, Any equivalent combination of experience and/or education from which comparable knowledge, skills and abilities have been achieved.

Desired Qualifications:

Evidence of a Graduate degree with specialization in general and/or zoological (in-/vertebrate) collection curation and sample preparation (minimally two years). Well-documented experience in the standard-compliant digitization (databasing, imaging) of zoological and botanical research collections is highly desired. Knowledge of specific software platforms, and other relevant training, should be clearly stated in the application (with reference to publicly available products where suitable). Evidence of interpersonal skills and enthusiasm towards mentoring and outreach - including suitable social media - are preferred.

Position details:

Full-Time

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BangorU ForestBiodiversity

Full time Research Project Support Officer (RPSO): Forest restoration metabarcoding biodiversity analyses, with the Horizon Europe SUPERB project.

We are looking for a dynamic researcher to fulfil a key role in a new, collaborative and multidisciplinary team working at the interface between forest biodiversity, restoration and molecular ecology, environmental and remote sensing.

Forests harbour substantial fractions of biodiversity, provide a multitude of societal ecosystem services and, via large scale tree planting, represent a powerful nature-based solution for climate change mitigation. Yet, forest biodiversity is under threat via climate change and intensifying disturbances (e.g. droughts, bark beetles, fires, and storms), but also face risks from non-adapted forest management practices and unsustainable exploitation. In the euro 20M Horizon Europe Green Deal SUPERB project the overall goal is creating an enabling environment for, and demonstration of, largescale restoration of forests and forest landscapes across Europe. Along with the project team, the post holder will be responsible for planning, organising and conducting large-scale metabarcoding biodiversity analyses, focused on forest restoration. Although not a formal requirement for the role, there will be an opportunity to register for a post-graduate, PhD program, that will be integrated into the highly successful ENVISION NERC Doctoral Training Program (<http://www.envision-dtp.org/>), enabling further opportunities for bioinformatic, statistical training and analyses and publishing a series of collaborative manuscripts and subsequent award of a PhD thesis. In essence, the role offers the ability to pursue a paid PhD program. Irrespective of either route, project management and liaising with external partners and the project team will be integral to the role.

The SUPERB consortium comprises 36 institutions highly experienced in rewilding, nature-based solutions and ecological, economic and governance issues of forest and forest landscape restoration. Bangor University will work closely with the Universities of Lancaster, UK and Swedish University of Agricultural Sciences (SLU) in Umeå to assess restoration success at up to 6 demonstration sites across Europe, incorporating, and exploring synergies between cutting edge remote sensing

approaches, DNA metabarcoding, environmental variables and species distribution models, citizen science and bioacoustics.

The Bangor component of the SUPERB project will utilise metabarcoding of soil and aerial arthropod samples, to assess biodiversity, bioinformatics and ecological modelling, with the RPSO working closely with a diverse team of collaborators from the fields of acoustic and remote sensing, species distribution modelling and forest restoration throughout 6 sites across Europe.

Candidates should possess a degree, or equivalent qualification in related areas such as natural sciences, biotechnology, molecular biology and should ideally have previous experience of fieldwork, molecular ecology (e.g. metabarcoding analyses). The successful candidate will be expected to commence as soon as convenient in 2022, with the contract expiring on 30/11/2025.

Informal enquiries should be sent to Profs. S. Creer and Ruben Valbuena, email s.creer@bangor.ac.uk, r.valbuena@bangor.ac.uk, <http://meeb.bangor.ac.uk/-staff/si.php>, <https://www.bangor.ac.uk/natural-sciences/staff/ruben-valbuena/en>; @spideycreer; @rubenvalpue.

Candidates can submit their applications via the on-line recruitment website, jobs.bangor.ac.uk (REF: BU02720).

Closing date for applications: 7th January 2022, with interviews predicted to take place in the 2nd half of January, early February 2022.

Prof Simon Creer Athro Coleg Foleciwlaidd Ysgol Y Gwyddorau Naturiol

Rydw i'n siarad Cymraeg

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Prof Simon Creer Professor of Molecular Ecology School of Natural Sciences

I speak Welsh

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Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg neu Saesneg You are welcome to contact the University in Welsh or English Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565 Gall y neges e-bost hon, ac unrhyw atodiadau a anfonwyd gyda hi, gynnwys deunydd cyfrinachol ac wedi eu bwriadu i'w defnyddio'n unig

gan y sawl y cawsant eu cyfeirio ato (atynt). Os ydych wedi derbyn y neges e-bost hon trwy gamgymeriad, rhowch wybod i'r anfonwr ar unwaith a dilewch y neges. Os na fwriadwyd anfon y neges atoch chi, rhaid i chi beidio a defnyddio, cadw neu ddatgelu

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BaruchCollege CUNY EvolutionaryBiol

Assistant Professor of Biology position at Baruch College, CUNY. This position is open to any type of biologist and evolutionary biologists and computational biologists are especially encouraged to apply. The department has several systemists and a long history of collaborating with the American Museum of Natural History and the New York Botanical Garden. —

FACULTY VACANCY ANNOUNCEMENT

The Department of Natural Sciences at Baruch College, City University of New York, invites applications for a full-time, tenure-track position at the rank of Assistant Professor of Biology, starting September 1, 2022. The candidate is expected to establish an externally funded research program that will complement the collaborative, interdisciplinary environment at the College and provide research opportunities for undergraduate students. The Department of Natural Sciences offers general education courses for non-majors as well as a Biological Sciences Major and minors in Chemistry, Environmental Sustainability, and Physics. Teaching responsibilities will include introductory courses for majors and non-majors and an upper-level course in your area of expertise for Biological Sciences majors and minors.

Baruch College is in the vibrant Gramercy Park District of New York City. It is easily reached by public transportation from locations throughout New York City's five boroughs and tri-state area suburbs. The College is nationally recognized for Academic Excellence, Access and Value, and Social Mobility for Students. Baruch College offers modern, shared laboratory equipment/facilities and its location in midtown Manhattan provides access to a diverse range of research institutions and collaborators. For more information

about the College, the Weissman School of Arts and Sciences, and the Department, visit the Baruch website: <https://www.baruch.cuny.edu/> Baruch College is strongly committed to a diverse work environment. Our student body is one of the most diverse in the nation; students represent 160 countries and speak more than 100 languages. A vibrant and pluralistic community is fundamental to the exchange of ideas and fostering knowledge. The Department of Natural Sciences values diversity among its faculty, is committed to building a culturally diverse intellectual community, and strongly encourages applications from persons from underrepresented backgrounds in Biological Sciences, including racial/ethnic, sex, and physical disabilities.

QUALIFICATIONS

Ph.D. degree in Biology or a closely related field is required by September 1, 2022 when the appointment begins. We welcome applicants whose expertise complements the research programs available in the department. Potential areas of interest include, but are not limited to, Systems Biology, Neuroscience, Endocrinology, Plant Biology and Immunology. Note, Baruch College does not have a vertebrate animal care and research facility.

Competitive applicants should have a strong record of peer-reviewed publications in their field. We strongly encourage applications from individuals with over two years of postdoctoral experience, and ability to collaborate with institutions around New York City. Teaching experience, promise of teaching excellence and a commitment to mentoring undergraduate researchers are essential. Applicants should indicate their commitment to supporting the culturally diverse community of students.

COMPENSATION

CUNY offers faculty a competitive compensation and benefits package covering health insurance, pension and retirement benefits, paid parental leave, and savings programs. We also provide mentoring and support for research, scholarship, and publication as part of our commitment to ongoing faculty professional development.

HOW TO APPLY

STEP ONE - Apply here: https://cuny.jobs/-new-york-ny/assistant-professor-biology/-CB15E219A1B04AAA41DE4A9805C241F/job/-?vs=105&utm_source=XMLFeed-DE&utm_medium=XMLFeed&utm_campaign=XMLFeed To be considered for this position, you must include a cover letter, curriculum vitae/resume, research statement, teaching philosophy statement and a description of how you will contribute to and support diversity at Baruch College.

Supplementary documents (publications, manuscripts, and teaching evaluations) may also be submitted. Materials are to be submitted in doc, pdf or rtf format in one file.

STEP TWO - Go to <https://www.baruch.cuny.edu/hrref/> All applicants are required to have three confidential letters of recommendation submitted electronically by their references as described below.

Please go to <https://www.baruch.cuny.edu/hrref/> and enter the contact

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BenGurionU EvolutionaryBiology

Dear all,

The Mitrani Department of Desert Ecology (MDDE) at the Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev (BGU) invites applications for a tenure track position in the field(s) of ecology/evolutionary biology/conservation biology, with an expected start date of October 1, 2022.

The MDDE is located on BGU's Sede Boqer Campus in Midreshet Ben-Gurion. The campus is uniquely surrounded by the desert environment that constitutes the research focus of the department's faculty and students. The MDDE is home to a vibrant and diverse international student community. The MDDE faculty and students are committed to the study of ecology, evolution, and nature conservation. The complementarity of these scientific fields motivates a robust understanding of ecological and evolutionary processes and ecosystem functioning in diverse environments, from pristine to highly disturbed ecosystems.

The MDDE is a well-established department, with an international reputation. Its faculty members conduct research in various fields, including evolutionary ecology, behavioral ecology, disease and microbial ecology, population and community ecology, conservation, conservation genetics, conservation behavior, agroecology, and human-nature relationships. MDDE members maintain extensive national and international partnerships, and advise and collaborate with government agencies and NGOs.

The applicant is required to have a PhD in the field(s) of natural sciences or exact sciences, at least one-year of postdoctoral experience, and a well-established publication record in leading journals, demonstrating excellence in research and a distinct field of expertise.

The successful candidate is expected to establish a vigorous, externally funded research program, carry out and publish independent cutting-edge scientific research, advise graduate students, and contribute to the graduate and undergraduate curricula in ecology and conservation.

Interested candidates should submit their applications no later than February, 15th 2022 through the following link: https://bguacademicrecruitment.force.com/Recruiters/VF_BGUPositions?Id=02i5I000007u5S0, but the application will stay open until the position is filled.

All inquiries should be sent to the Chair of the Search Committee: Prof. Itamar Giladi itushgi@bgu.ac.il.

Happy holidays, Hadas

Hawlana Hadas <hadashaw@bgu.ac.il>

CAS Beijing 2 PopGenAncientDNA

Assistant or associate prof. position available: Ancient Genomics

The Fu Molecular Paleontology Lab has assistant professor and associate professor positions available. If you have a background in statistical population genetics and/or data science, this might be for you!

Our Molecular Paleontology laboratory pioneered large-scale studies of human population history requiring analysis of large numbers of samples simultaneously. We use ancient DNA to understand early modern human migration routes; to explore how Paleolithic, Neolithic, and more recent humans expanded across Asia; and to study gene flow between modern and archaic humans. In addition, we are studying the genetic diversity of past mammals, including pandas and gray wolves, as well as the evolution of ancient pathogens in early East Asian populations.

We are looking for a highly motivated researcher with appropriate experience and interests to work on analysis of these data. Potential projects will likely investigate the biological history of humans using ancient and present-day genomic data.

The successful candidate will have analytical and computer skills that allow exploration of large and complex genetic data sets, preferably with previous experience in a world class Molecular Paleontology lab. Research is conducted in English. The position will be supervised by Dr. Qiaomei Fu.

Applicants are requested to send their CV, a short statement of their research interests, and the names and contact information of two references to Dr. Qiaomei Fu at fuqiaomei@ivpp.ac.cn. Strong candidates will be expected to participate in a Skype or on-site interview. The position will be open until filled. The position is for two years with a possibility of renewal, and salary will be internationally competitive. Please address any questions to Dr. Fu.

The Fu Molecular Paleontology Lab, consisting of nearly 30 members (including group leaders, postdoctoral scholars, doctoral and master's students and technicians), is a cutting edge international Molecular Paleontology laboratory. It is based at the Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, near the center of Beijing, China, with easy access to public transportation. The Fu lab focuses primarily on ancient genomic analysis, but the institute's research environment is diverse, with a vibrant community of researchers studying anthropology, archaeology and paleontology. Beijing is a thriving fast-growing city with a robust international community.

Dr. Fu's work has been published in *Nature*, *Science*, *Cell*, *PNAS*, *Current Biology*, *AJHG*, amongst others. Her most important findings include: codeveloping an ancient nuclear DNA capture technique, which made it possible to research the whole genome of ancient humans; sequencing the world's earliest as well as East Asia's oldest modern human genomes; unraveling the human population shifts and admixture history in East Asia for the past 40,000 years; acquiring the first Denisovan mitochondrial DNA from Late Paleolithic sediments on the Tibetan Plateau; revealing a previously unsampled genetic lineage that is deeply diverged from East Asians in Guangxi; etc. Among them, some was selected as one of the "Top 2014 Annual Ten Scientific Events" by the journal *Nature*, one of the "Top Ten New Cognitions for Human Origin Research" by the Smithsonian Institution, one of "China's Top Ten Progresses in Science", one of "China's Top Ten Paleontological Advances" and so on. Also, she was selected as one of the "Ten Chinese Science Stars" in 2016 by *Nature*, a "TWAS Young Affiliates" by the World Academy of Sciences; has received the "Distinguished Young Scientist" award from the Chinese Academy of Sciences, HHMI International Scientist Award from the Howard Hughes Medical Institute; and was a winner of the National Science Fund

for "Distinguished Young Scholars", etc.

For more information, her Research Gate site can be accessed here: https://www.researchgate.net/profile/-Qiaomei_Fu . Yichen Liu <yichen.liu@ivpp.ac.cn>

Claremont Colleges Teaching Evolution

The Keck Science Department of the Claremont Colleges is hiring a Visiting Assistant Professor to start in January 2022. Teaching responsibilities include a course in applied biostatistics for biology majors and two sections of an introductory lab in ecology and evolution. This is a full-time position with possibility of renewal for the 2022-23 academic year.

https://theclaremontcolleges.wd1.myworkdayjobs.com/-SCR_Careers_Faculty/job/SCR—Keck-Science/-Visiting-Assistant-Professor-of-Biology_REQ-3978

Visiting Assistant Professor of Biology

Job Description:

The W.M Keck Science Department of Claremont McKenna, Pitzer and Scripps Colleges (three of the five undergraduate Claremont Colleges) in Southern California, seeks to hire a full time, visiting assistant professor in biology for the Spring 2022 semester. Successful candidates will be able to teach an introductory statistics course for biology majors and two sections of an introductory biology laboratory course. Mentoring of undergraduate research projects may also be possible. The position is for a one-semester appointment with the potential of extension for the following academic year. A Ph.D. in biology or related subject is required and prior teaching experience is preferred. Candidates who are nearing completion of their Ph.D. may also be considered.

Upload: (1) a cover letter, (2) a curriculum vitae, (3) a statement of your proposed approach to teaching science in a liberal arts setting, (4) a statement on promoting diversity, equity, and inclusion in a liberal arts environment, and (5) the names and email addresses of three references. Please have your references email their reference letters to: biologysearch@scrippscollege.edu.

Inquiries regarding the position may be emailed to Dr. Sarah Gilman at: sgilman@kecksci.claremont.edu Additional information about the department may be found at www.kecksci.claremont.edu. Review of applications will begin immediately, and the position will remain

open until filled.

The Keck Science Department of Claremont McK

Sarah Gilman Associate Professor Biology Director,
First Year Seminar Program, Pitzer College

W.M. Keck Science Department, of Claremont
McKenna, Pitzer, and Scripps Colleges 925 N. Mills
Avenue Claremont, CA 91711

<http://faculty.jsd.claremont.edu/sgilman>
sgilman@kecksci.claremont.edu 909-607-0715

“Gilman, Sarah” <SGilman@kecksci.claremont.edu>

ClemsonU HumanComputationalGenomics

Clemson University invites applications for a tenure-track Assistant Professor as part of a Cluster Hire at the Center for Human Genetics, with an expected start date of August 2022. Clemson University offers competitive salaries, benefits and start-up funds.

The successful applicant will have an accomplished research record at the forefront of human 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 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. The Center for Human Genetics provides a vibrant interactive research environment with state-of-the-art genomic and computational resources. 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 Center of Human Genetics currently consists of 16 faculty and their lab groups in four Departments, located on Clemson main campus and in Greenwood, South Carolina on the Greenwood Genetic Center Partnership Campus. This position will be located on the Clemson

main campus. The home department will be determined by the fit of the applicant’s research interests with the mission of the Department of Biological Sciences (www.clemson.edu/science/departments/biosci/index.html), the Department of Genetics and Biochemistry (www.clemson.edu/science/departments/genetics-biochemistry/index.html), or the School of Mathematical and Statistical Sciences (www.clemson.edu/science/departments/mathematical-sciences/index.html).

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.

The successful candidate 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 at <http://apply.interfolio.com/99433>: (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 January 15, 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 SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS DIRECTOR, CENTER FOR HUMAN GENETICS PROFESSOR OF GENETICS AND BIOCHEMISTRY Center

for Human Genetics

Clemson University 110 Self Regional Hall 114 Gregor Mendel Circle Greenwood, SC 29646 w864-889-0522 c919-604-6531 tmackay@clemson.edu

Trudy Frances Charlene Mackay
<tmackay@clemson.edu>

FieldMuseum Chicago InvertebrateCollectionsManager

The Field Museum houses one of the world's largest collections of zoological specimens. The 5 million-specimen Invertebrates Collection comprises over 400,000 catalog entries. The actively growing collection serves as a research resource for national and international scientific communities. Containing unique material of special historical and ecological significance, the collection is world-class in size, as well as taxonomic breadth and geographic scope.

With a primary focus on Mollusca, the collection encompasses all invertebrate groups except arachnids, myriapods, and insects. The phylum Mollusca comprises 95% of the total collection and is worldwide in scope, with 45% of holdings terrestrial, 40% marine and 15% freshwater. Around 10% of the mollusk collection is fluid preserved, with the vast majority of specimens stored dry. Within the 17,000 non-molluscan lots, crustaceans, echinoderms, and cnidarians comprise the largest holdings; of these 70% are fluid preserved. Noteworthy are several thousand lots (molluscan and non-molluscan) from deep-sea habitats including hydrothermal vents, cold seeps, and wood falls. Approximately 2,000 tissue samples for genetic resources are stored in the Cryogenic Facility. Data are managed on an Axiell EMu platform. Ongoing efforts are focusing on digitization of specimen data and images, geo-referencing, and the assorted mobilization of data to national and global aggregators such as IDigBio and GBIF.

Applications must include a Cover Letter, CV, and contact details for three references to be considered. Review of applications will begin on January 15, 2022.

Please send all application materials to collectionsearch@fieldmuseum.org.

Duties and Responsibilities

The Collection Manager reports to the Head of Zoological collections and leads day-to-day activities in the

Invertebrates Collection, including management of staff. The Collection Manager works jointly with Curators to set long and short-term priorities for the Invertebrates Collection. The Collection Manager also interacts with other collections areas, research scientists, exhibitions developers, and education staff. The Collection Manager may pursue research for up to 20% of their work time and seek funding for collections improvements and collections-based research projects. The successful candidate will be evaluated on the demonstrated ability to promote, study, build, care for, and ensure accessibility to a large, active, and diverse collection.

Responsibilities include:

Managing digitization tasks including basic data entry, imaging specimens, geo-referencing, species inventory, and development and evaluation of workflows and standards to ensure best practices Incorporating new material into the collection, preparing, sorting, identifying, and cataloging specimens Tracking and reporting metrics of collection use and growth Managing the Invertebrates Collection budget Coordinating an active loan program and on-site use of the collection by researchers Actively interacting with, and keeping abreast of, relevant developments in the collections field, such as those coordinated and promoted by IDigBio and SPNHC Participating in the museum's public programming and promoting the mission of the museum and its fundraising goals Supporting the museum's commitment to increasing diversity, access, and inclusion across its programs Training, mentorship, and supervision of staff, interns, and volunteers in the collection Fundraising to support the collection through targeted proposal development

Qualifications

Masters in Biology (with an emphasis in an area of Invertebrate Zoology) with at least 3 years collections experience or PhD (with an emphasis in Invertebrate Zoology) with at least one year experience. A well-versed background in Invertebrate Zoology and museology is required, preferably with a focus on malacology; familiarity with other invertebrate collections and research is desirable Knowledge of taxonomic principles and invertebrate collection management Strong organizational skills necessary to keep collection accessible Ample experience with collection databases, imaging systems, and data aggregators is required, as is experience managing digitization projects Working knowledge of international and domestic regulations for shipment of specimens and requirements for packing loans Strong history of building and managing a diverse team of staff, interns, and volunteers Strong communication skills including electronic and written formats, public speaking

and proposal preparation Ability to work with a variety of preservation chemicals (e.g., ethanol)

Important Note: In order to protect the health and safety of our employees, guests and their families, the Field Museum is requiring all employees to be fully vaccinated against COVID-19. Requests for exemptions from the vaccine will not be considered as given the nature of this position, we are

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Finland PopulationGenetics

Senior scientist in population genetics

About the workplace

Natural Resources Institute Finland (Luke) is a research organisation working to promote bioeconomy and sustainable use of natural resources. We provide solutions and services to our customers based on best available scientific knowledge. Our research results and services generate added value and sustainability as well as scientific evidence to support decision making. We carry out research on forestry, agriculture, food, game, and fisheries. As one of its statutory services, Luke is responsible for coordinating and managing the national programme on Forest Genetic resources conservation.

Being open-minded and curious and having a strong will to leave a positive mark to the world binds Luke people together. Together we build a positive working culture where each other's work is highly respected. In Luke, the work assignments are versatile and employees can influence the content of their work. We work in a mobile work culture which gives you the

possibility to work from wherever it suits you the best. Luke offers a multidisciplinary international research environment with unique research infrastructures, experimental sites and well-equipped laboratories.

Work tasks

Luke is seeking a senior scientist (erikoistutkija) in the field of population genetics for the statutory work on forest genetic resources conservation and management, including also acquiring external funding. The senior

scientist is involved in national and international conservation and coordination activities in the field of forest genetic resources, and active in research supporting these activities.

A personnel security clearance may be obtained for a person chosen for an office or a post with his or her consent (Security Clearance Act 726/2014). For more information on the security clearance procedure and the rights of the person subject to clearance, visit www.supo.fi Qualifications

The senior scientist will participate in the development of the existing forest genetic resources conservation programme, by science based population genetics solutions and practical applications. In practice, success in the position requires doctoral degree on population genetics and at least basic knowledge of forestry. Deeper understanding of forestry and policies that are relevant for forest genetic resources conservation is considered as advantage. Competence in relevant statistical methods (e.g., population genetics and genomics, quantitative data analyses) is required. The position requires good scientific writing skills, and fluent English spoken language. The applicant should possess good co-operational skills, to participate in several ongoing EU projects on forest genetics, and to take an active role in preparing new national and international research projects. Existing international research networks are considered as advantage, as well as a proven track record of successfully acquired external research funding. The successful candidate must comply with Lukes open science and data policy.

Scope of employment

Form of employment: Permanent employment Scope: Office work Commencement: 1.3.2022

Application

Last application date: 31.1.2022 16:00 Reference number: 30-588-2021

You can apply for this job via:

Send a digital application via this link.

You may also apply for this position by submitting your application to the address below. The job reference of the role must be cited both in the actual application and on the envelope. Applications will not be returned.

Luonnonvarakeskuksen kirjaamo Latokartanonkaari 9 00790Helsinki, FINLAND

Please attach your CV and application letter to your application.

Salary

The position is at complexity level 10 in Luke's salary system. Therefore, the position-specific salary component is EUR 4 059.97 per month. In addition to the position-specific salary component, a salary component based on personal performance will be paid. It can be at most 50% of the position-specific salary component. The applicant may also present a separate salary request.

Employment

Number of positions advertised: 1

Contact

Contact persons

Mari Rusanen Senior Specialist +358 29 532 5477

mari.rusanen@luke.fi

Tuija Aronen Group Manager, Principal Scientist +358 29 532 4233

tuija.aronen@luke.fi

Placement

Natural Resources Institute Finland Latokartanonkaari 9 00790 Helsinki

or

Natural Resources Institute Finland Vipusenkuja 6 57200 Savonlinna

Other

Please note that the application period expires on January 31, 2022 at 4.00 pm (time in Finland, UTC + 2). Unfortunately, we are unable to consider late applications.

<https://www.luke.fi/en> Trial period is 4 months

“Rusanen Mari (LUKE)” <mari.rusanen@luke.fi>

George WashingtonU Bioinformatics

A position is available for a Research Scientist jointly sponsored by the laboratory of Dr. Katherine Chiappinelli, PhD at the GW Cancer Center (<https://cancercenter.gwu.edu/>), Department of Microbiology, Immunology, & Tropical Medicine and the Computational Biology Institute/Department of Biostatistics & Bioinformatics, in Washington, DC.

Dr. Chiappinelli's laboratory focuses on the epigenetic control of gene expression in cancer, specifically of im-

mune signaling in and from tumor cells. Our goal is to use epigenetic therapies to harness the power of the immune system to fight cancer. We have a specific focus on utilizing transposable elements in the genome to inform and create new cancer therapies. The Computational Biology Institute (CBI), directed by Dr. Keith Crandall, PhD, focuses on computational and statistical method development, data integration and harmonization, and software development. We apply our approaches multi-omics and clinical data integration to advance public health inferences and health outcomes.

Dr. Chiappinelli and Dr. Crandall have worked collaboratively for four years with joint grant funding, working groups, and publications. Working across the Chiappinelli lab and the CBI, the position will autonomously provide and interpret computational algorithms and statistical models, and optimize computational workflows and pipelines. The Research Scientist will be responsible for their own projects as well as coordinating collaborations and assisting trainees performing genomics research. The Research Scientist will analyze and interpret data, publish results, and present at conferences and meetings. The position will partner in the design of experiments determining the role of transposable elements in cancer and other diseases, as well as participate in other multi-omics data integration projects (including microbiome studies) through the development and implementation of machine learning approaches. This Scientist will provide scientific domain knowledge in bioinformatics, computational biology and data science and will demonstrate the ability to rapidly develop, evaluate, and implement new techniques.

The Research Scientist is expected to have an enthusiasm for the practice of science and a passionate interest in the field of cancer epigenetics, immunology, bioinformatics and/or computational biology. S/he will be a clear communicator and organized thinker who is willing to collaborate with the PI's to develop and execute a diverse research program. Qualified candidates will hold a Master's degree plus 5 years of experience or a PhD plus 2 years of experience in a related discipline to include at least 2 years of research and/or college level teaching in a field basic to the work to be performed. Degree must be conferred by the start date of the position.

Interested candidates and find more information and apply at <https://www.gwu.jobs/postings/89480> George Washington University is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

Prof. Keith A. Crandall Director, Computational Biology Institute Department of Biostatistics and Bioinformatics 800 22nd Street, NW Suite 7000D Science and Engineering Hall The George Washington University Washington, DC 20052

“Prof. Keith A. Crandall” <kcrandall@gwu.edu>

George Washington U Evolutionary Biology

Tenure-track Faculty Position in Evolutionary Biology
Department of Biological Sciences The George Washington University

The Department of Biological Sciences at The George Washington University (GWU) invites applicants for a tenure-track faculty position in Evolutionary Biology at the rank of Assistant Professor, to begin in the Fall 2022 Semester. The successful candidate will complement existing strengths in integrative, interdisciplinary research in the department, and will be expected to establish and maintain an externally funded research program comprising graduate and undergraduate students. Teaching duties involve a core undergraduate course in Evolution as well as an upper-division course in an area related to the successful candidate’s specialty.

Office and laboratory space will be housed in Bell Hall. Core facilities available at GWU include greenhouses, genome sequencing, imaging, nano-fabrication, histology, flow-cytometry, and animal research space. Our location in Washington DC offers superior undergraduate and graduate learning opportunities through access to the Smithsonian’s National Museum of Natural History, the National Zoo, The National Institutes of Health, and a consortium of DC-area universities, as well as the recently created Computational Biology Institute at GWU.

The university and department have a strong commitment to achieving diversity among faculty and staff. We are particularly interested in receiving applications from members of underrepresented groups and strongly encourage women and persons of color to apply for these positions. The University seeks to attract an active, culturally and academically diverse faculty of the highest caliber. Our statement on diversity and inclusion: <https://diversity.gwu.edu/gw-statement-diversity-and-inclusion-0> . Minimum Qualifications: Applicants must possess a Ph.D in evolutionary biology or a closely

related field as well as a minimum of two years of post-doctoral training by the start of the position, a strong record of publications in scholarly journals, and teaching experience at the university level.

Application Procedure: To be considered, please complete an online faculty application at gwu.jobs/postings/88591 and upload the following documents: (i) cover letter describing interests and qualifications for the position; (ii) curriculum vitae including a full list of publications; (iii) brief research and teaching statements; (iv) three recent publications; (v) a diversity statement that highlights any past experiences and future plans related to supporting a diverse and inclusive community; (vi) the names and contact information of three referees. Each statement (research, teaching, and diversity) should not exceed three pages. Letters of recommendation from referees will be requested at a later stage for candidates advancing to the second stage of the process. Only complete applications will be considered.

Review of applications will begin on January 10th, 2022, and continue until the position is filled, pending final budgetary approval. Employment offers are contingent on the satisfactory outcome of a standard background screening.

The university is an Equal Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity expression, or on any other basis prohibited by applicable law.

Please contact Dr. Alex Pyron (rpyron@gwu.edu), Chair of the Evolutionary Biology Faculty Search Committee, with any questions.

Alex Pyron <rpyron@colubroid.org>

HasseltU Belgium Hermaphrodites

Vacancy

The Faculty of Sciences, capacity group Biology-Geology, Research Institute: Centre for Environmental Sciences, research group Zoology: Biodiversity and Toxicology of Hasselt University and the Operational Directorate Taxonomy and Phylogeny at the Royal Belgian Institute of Natural Sciences (RBINS) seek a (m/f/x) :

FED-tWIN Researcher on hermaphrodite taxonomy: 50% Tenure track lecturer at UHasselt and 50% Workleader (SW2) at RBINS

Background

The FED-TWiN program is a cooperation effort between the Belgian federal institutes and the Belgian universities. Within this program, researchers are recruited to work on a research project that is supervised by two promoters, one from a BFI and one from a university. This job posting conforms to the FED-tWIN profile Prf-2020-006_HerTax; Hermaphrodite Taxonomy.

At UHasselt your research activities will be embedded within the Research Group Zoology: Biodiversity and Toxicology (Department of Biology) and the Centre for Environmental Sciences (CMK). The Centre for Environmental Sciences is a research institute of Hasselt University that opts for a wellbalanced combination and symbiosis between environmentally-related fundamental and applied research in a multidisciplinary research environment. The research group and the CMK have extensive (inter)national collaborations.

At RBINS your research activities will be embedded in the Operational Directorate Taxonomy and Phylogeny, which specializes in the study of the taxonomy, phylogeny and evolution of various metazoan taxa. In addition, the OD attaches great importance to providing scientific services, particularly species identifications, the support of citizen science activities and public outreach. As such, the OD is involved in several (inter)national programmes.

Education task

At UHasselt, you provide high-quality education in the bachelor program of Biology, more specifically in courses on (molecular) taxonomy, population genetics, and (molecular) evolution/phylogeny. You will also contribute to the supervision of bachelor and master

theses.

At RBINS you will contribute to the course program offered by the Distributed European School of Taxonomy (DEST).

Research mission

The selected candidate will develop and perform research within the FED-tWIN project Prf-2020-006_HerTax; Hermaphrodite Taxonomy. Within this project the taxonomic diversity, speciation, and invasion biology of three groups will be investigated in relation to their breeding systems: pulmonate gastropods, flatworms and oligochaetes. This will be done by means of an integrative taxonomic and methodological approach, based on a combination of phenotypic and genomic analyses using up to date methods and tools, including light microscopy, Scanning Electron Microscopy, micro-computed tomography, and DNA data obtained by classical (e.g. DNA barcoding, microsatellite DNA, ...) and Next-Generation DNA Sequencing technologies. These latter may include mitogenomics, Restriction Site-Associated DNA Sequencing, full genome sequencing, transcriptomics, and other techniques that undoubtedly will become available in the years to come. On the longer term, phenotypic and genomic diversity will be linked to epigenetic markers (e.g. DNA methylation patterns) and gut microbiota diversity, so as to explore the holobiont concept. The research will involve a strong phenotypic, i.e. "descriptive taxonomy", component because natural selection acts differentially upon competing phenotypes and by doing so it changes the genetic composition of populations in function of the link between phenotypes and their underlying genotypes. Hence understanding evolution by natural selection requires a sound phenotypic framework as provided by descriptive taxonomy. Beyond its fundamental scientific relevance, this research profile will have two important, applied scientific spinoffs by its contribution to collection management and by providing identification expertise on species in the focal groups.

Profile

*PhD in Sciences (Biology) or Applied Biological Sciences (or equivalent) with an explicit profile in descriptive taxonomy, evolutionary biology and molecular systematics of invertebrates, preferably of the groups mentioned in the research mission.

The PhD should be obtained maximum 12 years before the submission date. This 12-year period is extended with 1 year for each absence because of maternity, parental, adoption, long-term illness of the candidate or of a first-degree family member.

* Academic staff must meet the statutory language re-

quirements for knowledge of the language of instruction (Dutch). If necessary, Hasselt University offers concrete, tailored support measures to help achieve the required language level.

* You have excellent organizational and communication skills. Being familiar with developing and maintaining websites and communication through digital social media (Facebook, Twitter, ...) is an asset.

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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>

JagielloniaU GlobalChangeBiology

RECTOR of the Jagiellonian University announces a competitive selection process for the post of an ASSISTANT PROFESSOR in the research staff of the Faculty of Biology academic field Global Environmental Change

The competitive selection process is open for all individuals, who meet the following requirements

- 1) Hold at least a doctoral degree; 2) Have relevant scientific achievements
- 3) Take active part in scientific life;

—Additional eligibility criteria:

- 4) Have relevant scientific achievements in the area of Global Environmental Change (GEC), as testified by a strong publication track record focusing on:

- Modeling the impact of GEC on ecosystems and developing strategies to minimize the negative impact and to adapt to GEC - Biodiversity loss - Environmental changes in forest ecosystems and the development of mitigation strategies - Changes in the polar regions and the development of mitigation strategies - Management and sustainable use of natural and agricultural resources - Social, economic and political consequences of GEC

- 5) Completed a long term research stay or has been employed in research institutions of international standing outside Poland,
- 6) Will provide references from two researches of international standing in the area of GEC, willing to provide recommendation letters,
- 7) An ability of securing external funding for research,

demonstrated by a position of principal investigator in research projects, or university-level teaching experience will be additional assets.

We expect: - setting up and leading an independent research group,

- acquire external funding securing operation and growth of the research group through successful application for research grants, in particular international,

- developing an active research program in a broad area of adaptation to GEC and mitigation of adverse impacts of GEC,

- establishing links with the socio-economic environment to promote and implement the effects of the research program.

We provide: 1.Competitive salary,

2.A 12-month contract, with possibility to prolongate to 21 months.

3.Start-up funds of 2000 Euro.

The candidates, who would like to take part in the competitive selection process, should submit the following documents to the Dean's Office of the Faculty of Biology of the Jagiellonian University in Krakow, Gronostajowa 7, 30-387 Kraków or send the documents via email to: wyzdzial.biologii@uj.edu.pl:

1. application form;
2. resume;
3. personal questionnaire filled in by the candidate;
4. copy of the doctoral diploma or a diploma confirming the candidate's habilitation degree, if applicable;
5. information on the candidate's scientific, teaching and organisational achievements;
6. list of publications (along with the respective publishing houses and the number of pages);
7. doctoral dissertation or habilitation dissertation review, if applicable;
8. latest performance evaluation form, if the candidate was subject to such evaluation;
9. recommendation concerning the candidate's research work
10. declaration of the candidate, confirming that the Jagiellonian University will be their primary place of work, should they be selected in the competitive selection process;
11. declaration under Article 113 of the Law on Higher Education and Science;

12. declaration on acknowledging and accepting the rules and regulations concerning intellectual property management and commercialisation in force at the Jagiellonian University; 13. information regarding processing of personal data.

Opening date: November 15, 2021 Application submission deadline: December 15 2021 The competitive selection process will be concluded by December 21, 2021 The Jagiellonian University does not provide housing. For more information see: <https://praca.bip.uj.edu.pl/documents/145868730/149067924/->

[ENG+Adiunkt+globalne+zmiany+%C5%9Brodowska.pdf/-44a12d02-6dc3-452a-b06b-fbe74cbe9059](https://www.cso.uj.edu.pl/-nauczyciele) —Declaration forms can be obtained at: <http://www.cso.uj.edu.pl/-nauczyciele> The recruitment procedure will involve an interview in English with selected candidates via on-line platforms During the recruitment process, the Jagiellonian University follows the principles set out in the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers

On behalf of the Rector of the Jagiellonian University Dean of the Faculty of Biology /-/ Professor Joanna Zalewska-Ga³os^z

“joanna.rutkowska@uj.edu.pl”
<joanna.rutkowska@uj.edu.pl>

LehighU 2TechLabManager Behavioralevolution

The Kowalko lab at Lehigh University is recruiting a Lab Manager and two Lab Technicians to examine the genetic and neural mechanisms that underlie the evolution of behavior in the blind Mexican cavefish, *Astyanax mexicanus*. *The Kowalko lab is interested in understanding the mechanisms underlying behavioral variation and how behaviors evolve. The lab uses a broad array of approaches, including genetic mapping and gene editing. The projects will take place primarily in the laboratory, with one position including a fieldwork component.

For more information, please email Johanna Kowalko at j <jkowalko@fau.edu> ok421@lehigh.edu.

Direct job links can be found here:

<https://careers.pageuppeople.com/865/cw/en-us/job/499991/laboratory-manager> <https://careers.pageuppeople.com/865/cw/en-us/job/499998/laboratory-technician>

careers.pageuppeople.com/865/cw/en-us/job/499997/-laboratory-technician – Johanna Kowalko, PhD Assistant Professor Lehigh University Department of Biological Sciences Iacocca Hall 111 Research Dr Bethlehem, PA 18015 (610) 758-3694

she/her/hers

jkowalko@gmail.com

LOEWE-TBG Frankfurt EvolutionaryBiologist

Job Announcement ref. #12-21007

The LOEWE Center for Translational Biodiversity Genomics (LOEWE-TBG, <https://tbg.senckenberg.de/>) aims at making the genomic basis of biological diversity accessible for basic and applied research. Building on genome sequencing and analysis, LOEWE-TBG research topics range from comparative genomics, natural products genomics, and genomic biomonitoring to functional environmental genomics. LOEWE-TBG is based in Frankfurt am Main, Germany, and is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology.

The Senckenberg Gesellschaft für Naturforschung and the LOEWE-TBG invite applications for a

Evolutionary Biologist/Ecotoxicologist/Bioinformatician (m/f/d) (full time position)

About the project In this LOEWE-TBG project, we want to assess, how anthropogenic substances influence the mutation rate of metazoan organisms. Based on an existing genome-wide mutation rate test, we thus want to develop and introduce new ecotoxicological assessment methods that will be eventually internationally established within the ISO framework. Furthermore, the project encompasses population genomic analyses of the fitness consequences of the applied substances. It is planned to work with several ecotoxicological model species such as *Chironomus riparius*, and *Eisenia fetida*.

Your tasks

Developing, maintaining and running high-throughput pipelines for the assembly and annotation of de novo genomes from diverse eukaryotes Organizing and documenting the work-flow from receiving the raw data over issuing the assembled genomes to the client users

to archiving in public databases
Communication with user groups, service providers and external database managers

Your profile The ideal candidate (m/f/d) commands two or more of the following skills plus the ability and will to acquire the missing one:

PhD degree in bioinformatics / computational biology, genomics or a related area
Population genomic experience with individual resequencing data
Mapping to reference genome, genotype calling, awareness of data quality issues etc.
Experience with ecological / ecotoxicological experiments
Programming and / or scripting experience to adjust / improve existing bioinformatic pipelines
Ability to work in close collaboration with several partners
Excellent communication skills

What is awaiting you?

An interesting task in a dynamic team of researchers in an internationally renowned research institution
The opportunity to gain experience in the above-mentioned research field
The occasion to build a network with scientists in interdisciplinary fields
Flexible working hours
- annual special payment - company pension scheme - Senckenberg badge for free entry in museums in Frankfurt, the Zoo, botanical garden and Palmengarten - leave of 30 days/year - a subsidized job ticket for public transport.

Place of employment: Frankfurt am Main
Working hours: Full time (40 hours/week)
Type of contract: Initially limited for 2 years
Salary: According to the collective agreement of the State of Hesse (pay grade E 13)

The contract should start as soon as possible in 2022 and is initially limited to two years. The employer is the Senckenberg Gesellschaft für Naturforschung who supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

How to apply Please send your application, mentioning the reference of this job announcement (ref.#12-21007) by e-mail until January 3d, 2022 and include a cover letter detailing research interests and experience, a detailed CV and a copy of your certification (all transcripts and grades)

To: recruiting@senckenberg.de or use our online application form on our homepage www.senckenberg.de. For scientific information please contact Prof. Dr. Markus Pfenninger, markus.pfenninger@senckenberg.de.

- - -

We look forward to your application! Wishing everyone a great day further.

Mit freundlichen Grüßen / Sincerely yours

Isabel Gajcevic, M.A.

Personalsachbearbeiterin

SENCKENBERG Gesellschaft für Naturforschung
(Rechtsfähiger Verein gemäß § 22 BGB)

Senckenberganlage 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)

- 1564 di-Biase, Maria

- 1478 Gajcevic, Isabel

- 1313 Helm, Jessica

Fax: 0049 (0)69 / 7542-1445

Mail: recruiting@senckenberg.de
Direktorium: Prof. Dr. Klement Tockner, Prof. Dr. Andreas Mulch, Dr. Martin Mittelbach, Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche

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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>

LouisianaStateU 2 ResAssoc AvianPhylogenetics.html

<pre> Work Location: Baton Rouge, Louisiana

To apply, please visit https://lsu.wd1.myworkdayjobs.com/LSU/job/B0009-MJ-Foster-Hall/Research-Associate-2_R00062465 Job

Information: A Research Associate position is available in the laboratory of Robb Brumfield at Louisiana State University. This is a one year position, with the possibility of re-appointment. Duties of the position

focus on using genetic data to study phylogenetic and population genetic variation in birds. Duties involve preparation and enrichment of genomic libraries. Current areas of emphasis in our research group include the evolutionary history of bird species, populations, and individuals, including studies of hybrid zones and the genetic underpinnings of phenotypic traits.

Job Responsibilities: 80%: Perform laboratory procedures to subsample tissues, extract DNA, prepare and enrich genomic libraries, and to sequence genomic libraries using next-generation sequencing technologies. Attend lab meetings. Conduct other laboratory techniques as needed for the research program. 15%: Organize and quality-control data 5%: Work with undergraduate assistants in the laboratory

Minimal qualifications: Bachelor's degree in Molecular Biology, Biology, Genetics, or related Field with at least 1 year experience (may use experience gained during undergraduate training to fulfill experience requirement). Specific experience: in DNA extraction, PCR, genomic library preparation, next-generation DNA sequencing.

Special Instructions: Applicants should attach a cover letter, CV, and references contact information when applying for this position. Documents can be attached under the Resume/CV section of your application. Letters of references should be emailed directly to Dr. Robb Brumfield at robb@lsu.edu ONLY upon request. For more information about the position, please contact Dr. Brumfield.

Thank you,

Abby Simpson Office of Human Resource Management Manager, Talent Acquisition 110 Thomas Boyd Hall | Baton Rouge, LA 70803 O: 225.578.7316 | F: 225.578.6571 Email: asimpson1@lsu.edu www.lsu.edu/hrm LSU HRM: Employment Resources for Student Success

Connect With Us

Abby Simpson <asimpson1@lsu.edu>

LouisianaStateU 3 EvolutionaryBiology.html

Work Location: Baton Rouge, LA

To apply, please visit <https://lsu.wd1.myworkdayjobs.com/LSU/job/0202-Life->

[Sciences-Building/Assistant-Professor_R00061784](#) Job Information: The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track position in Ecology at the level of Assistant Professor. We seek a broadly trained ecologist who addresses questions in any of a variety of sub-disciplines of ecology including but not limited to animal behavior, population demography and regulation, community structure and interactions, or the maintenance and function of biodiversity. The successful candidate will be expected to develop a strong, competitively funded research program. Favorable candidates will also complement our department's existing strengths, teach an undergraduate course in ecology, and a graduate course in their area of expertise.

Our department is dedicated to the goal of building a culturally diverse and pluralistic faculty, and we strongly encourage applications from women, members of minoritized groups, individuals with disabilities, veterans, and other members of groups underrepresented in science. We seek candidates whose research, teaching, or service has prepared them to contribute to diversity and inclusion in higher education.

The position will be available in August 2022.

Job Duties: 50% Develop and maintain an independent and extramurally funded research program ranging across all levels of biological organization with an emphasis on ecology. 50% Teach undergraduate and/or graduate level courses in a biological sciences discipline with an emphasis on ecology, and direct/supervise graduate students. Participate in service activities pertaining to the mission of the Department, and the advancement of the profession.

Minimum qualifications: PhD in Biological Sciences or related field Successful track record of productive research and publication along with postdoctoral experience.

Application Requirements: Curriculum Vitae Statements of research and teaching interests Three representative publications Three references who can provide letters of recommendation at a future date Diversity, Equity, and Inclusion statement describing how you will promote an inclusive learning environment and how your scholarship and mentoring practices support a diverse academic community.

Application deadline is December 6, 2021, or until a candidate is selected.

Salary: Commensurate with qualifications and experience.

Special Instructions: A copy of your transcript(s) may

be attached to your application (if available). However, original transcripts are required prior to hire.

Abby Simpson Office of Human Resource Management Manager, Talent Acquisition 110 Thomas Boyd Hall | Baton Rouge, LA 70803 O: 225.578.7316 | F: 225.578.6571 Email: asimpson1@lsu.edu www.lsu.edu/hrm LSU HRM: Employment Resources for Student Success

Connect With Us

Work Location: Baton Rouge, LA

To apply, please visit https://lsu.wd1.myworkdayjobs.com/LSU/job/0202-Life-Sciences-Building/Assistant-Professor_R00061771 Job Description The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track Microbial Biologist at the level of Assistant Professor in the areas of cellular microbiology and microbial physiology with research interests that can include among others: host-microbe interactions including pathogenesis; systems biology. Collaborative opportunities include the Department of Pathobiological Sciences (School of Veterinary Medicine), the College of Engineering, the College of the Coast and Environment and the College of Agriculture/LSU AgCenter. LSU's Center for Computation and Technology offers powerful platforms for research with a substantial computational component. Successful candidates will be expected to establish and maintain a vigorous, extramurally funded research program and to contribute to undergraduate and graduate teaching in the area of microbial physiology.

Job Duties: 50% Develop and maintain an independent and extramurally funded research program ranging across all levels of biological organization. 50% Teach undergraduate and/or graduate level courses in a biological sciences discipline, and direct/supervise graduate students. Participate in service activities pertaining to the mission of the Department, and the advancement of the profession.

Minimum Qualifications: PhD in Microbiology, Biological Sciences or related field. Applicant should have a successful track record of productive research and publication, and postdoctoral experience.

Application Requirements: Curriculum Vitae

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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>

LouisianaStateU EvolutionaryBiology.html

<pre> Work Location: Baton Rouge, LA

To apply, please visit https://lsu.wd1.myworkdayjobs.com/LSU/job/0202-Life-Sciences-Building/Assistant-Professor_R00061786

Special Instructions: Please submit a cover letter, separate statements for research, teaching, and curation, and contact information for three references. Applicants should address their experience, expertise, and plans for improving diversity, equity, and inclusion in the context of one or more of their research, teaching, or curation statements. Review of applications will begin on December 1, 2021.

Job Information: The Department of Biological Sciences and the Museum of Natural Science at Louisiana State University invite applications for a tenure-track faculty/curator position. The Department and Museum together house 60+ faculty spanning a range of disciplines, but with particular strengths in evolutionary biology, systematics, and ecology. We seek a biologist with a strong collections-based field program and expertise in the genetics of any group of vertebrates. Desirable disciplines include phylogenetics, comparative genomics, population genetics, molecular evolution, and related fields. The successful candidate will curate the Collection of Genetic Resources, one of the world's largest and most-used vertebrate tissue collections. We seek a curator who will manage its existing resources while also fostering its growth through traditional and innovative approaches. We are dedicated to building a culturally diverse and pluralistic faculty, and we strongly encourage applications from women, minorities, individuals with disabilities, veterans, and members of other groups underrepresented in science. We seek candidates whose research, teaching, curation, or service has prepared them to contribute to diversity and inclusion in higher education.

Job Duties: 50% Develop and maintain an independent and extramurally funded research program. 25% Teach undergraduate and/or graduate level courses in a biological sciences discipline, and direct/supervise graduate students. Participate in service activities pertaining to the mission of the Department, and the advancement of the profession. 25% Curate the Collection of Genetic

Resources, including managing its use, maintenance, and growth.

Minimum Qualifications: PhD in Biological Sciences or related field Successful track record of productive research and publication, and postdoctoral experience Strong background in building, managing, and using genetic resource collections is preferred

Thank you,

Abby Simpson Office of Human Resource Management Manager, Talent Acquisition 110 Thomas Boyd Hall | Baton Rouge, LA 70803 O: 225.578.7316 | F: 225.578.6571 Email: asimpson1@lsu.edu www.lsu.edu/hrm LSU HRM: Employment Resources for Student Success

Connect With Us

Abby Simpson <asimpson1@lsu.edu>

MfN Berlin 3 ArthropodSpeciesDiscovery

Job announcement: 3 tenure-track research positions with a focus on species discovery and taxonomy of hyperdiverse arthropod clades at the Center for Integrative Biodiversity Discovery, Museum fuer Naturkunde (MfN) Berlin, Germany

<https://jobs.museumfuernaturkunde.berlin/-jobposting/067dbdb4c8bb8cd36a232c28a9627486a3687b6a>

The opportunity: The Museum fuer Naturkunde Berlin has an internationally visible Center for Integrative Biodiversity Discovery. It will meet the scientific and societal challenges arising from rapid worldwide ecosystem change, not least the global biodiversity crisis, and capitalise on the chances and innovations from biodiversity. The Center will develop new scientific approaches to the study of biodiversity that will contribute to a more efficient and significantly faster global biodiversity inventory. At the same time it will enable high-quality taxonomic research on extinct and recent organisms and develop targeted knowledge products for various user groups.

We are seeking three talented and motivated biodiversity researchers (f/m/d) with a focus on methods to develop and support the new Center for Integrative Biodiversity Discovery at the Museum fuer Naturkunde Berlin Leibniz Institute for Evolution and Biodiversity Science.

To this purpose, the successful candidates will take a leading role in the development of innovative methods for species discovery and apply them to the taxonomy of hyperdiverse arthropod clades. The research should be embedded in the program of the Center for Integrative Biodiversity Discovery and involve engagement in grant applications as well as training and supervision of students and junior researchers. We also expect active participation in public outreach activities of the museum about biodiversity and biodiversity discovery. A particular focus of the Center is to develop new ways for the automatic discovery and description of species. For this purpose we combine biodiversity robotics with DNA barcoding and machine learning so that invertebrates can also be automatically identified by image in the future (see <https://www.science.org/news/2021/06/artificial-intelligence-could-help-biologists-classify-world-s-tiny-creatures>).

The Museum fuer Naturkunde Berlin provides an excellent research environment. It houses state-of-the-art laboratories for morphology (including histology, imaging, SEM, and CT labs), molecular genetics/genomics and computation. Numerous research groups are working in a wide range of research fields including population genetics, phylogenetics, developmental and evolutionary genetics, and taxonomy. Our world-class zoological collections provide unique access to specimens collected over the last 200+ years.

Requirements: PhD or PhD candidate in zoology with a significant publication record in collection-based biodiversity research on hyperdiverse terrestrial or limnic arthropod clades that are ideally dark taxa (clades where <10% of all species are described and the estimated diversity is >1000 species). The successful candidates must have described new species in dark taxa and should have experience in developing innovative research approaches to taxonomy that combine high-throughput sequencing and morphological data. Demonstrated experience in working on international research projects and obtaining third-party funding. Field work experience, preferably also in larger collaborative projects and willingness to participate in research in one of MfN's geographic focus regions (e.g., Southeast Asia, Africa) are expected. Successful candidates will be expected to work in an interdisciplinary environment at Germany's largest natural history museum. Excellent team player, proven communication skills and intercultural competence. Professional written and verbal communication in English.

Application procedures: We look forward to receiving your application with the usual documents (cover letter, curriculum vitae, certificates) as well as a statement (one page max.) outlining plans for research at MfN by

31.01.2022, preferably via our online application portal.

In support of equal rights applications from qualified women are particularly welcome. Handicapped individuals will be given preference in cases of identical qualifications.

For information on the application procedure, please contact recruiting@mf.n.berlin

“Blaimer, Bonnie” <Bonnie.Blaimer@mf.n.berlin>

NHM Frankfurt 7 Systematics

Job opportunities for marine invertebrate taxonomists, bioinformatician, PhD students and office manager

7 taxonomy-related positions are open at the Senckenberg Research Institute and Natural History Museum Frankfurt!

We are hiring a team for the 10-year project SOSA (Senckenberg Ocean Species Alliance) which is dedicated to the discovery of marine invertebrates, their protection through extinction risk assessments and outreach activities. Additional jobs are currently being offered for the connected PHENOME project studying molluscan evolution:

taxonomist and team leader of discovery unit (SOSA, 2 years + until Dec 2031) office/project manager (SOSA, 2 years + until Dec 2031) bioinformatician for molluscan genome assembly (PHENOME)

PhD studentship: holothurian biodiversity (SOSA) PhD studentship: deep-sea isopod biodiversity (SOSA) PhD studentship: chiton biodiversity (SOSA) PhD studentship: molluscan adaptations (PHENOME)

We welcome applications from everyone, and offer a stimulating and professional environment in which to work. We look for staff who can work according to our values: diversity, creativity, connection and evidence-based thinking. Place of work is Frankfurt, Germany, a vibrant international hub. Also, please spread the word!

Deadline for application is February 27. For more info on the application procedures, visit <https://sosa.senckenberg.de/en/jobs> and the Senckenberg career webpage <https://www.senckenberg.de/en/career/scientists/> . –

Dr. Torben Riehl Deputy head Crustacea Section Co-chair Senckenberg Ocean Species Alliance (SOSA) Co-editor Arthropod Systematics & Phylogeny Subject edi-

tor for Isopoda Zootaxa

Senckenberg Society for Nature Research (Rechtsfähiger Verein gemäß § 22 BGB) Senckenberganlage 25 60325 Frankfurt Germany

Tel: +49 (0)69 7542 1251 E-mail: torben.riehl@senckenberg.de www.senckenberg.de

Visitors address: Robert-Mayer-Str. 2 Arthur-von-Weinberg-Haus | Rm 2.040 60325 Frankfurt

Delivery address: Mertonstr. 17 60325 Frankfurt

Board of directors: Prof. Dr. Klement Tockner, Prof. Dr. Andreas Mulch, Dr. Martin Mittelbach, Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche. | President: Dr. h.c. Beate Heraeus | Supervisory authority: Municipal administration of the City of Frankfurt am Main (Office of Public Order) | Member of the Leibniz Association

Torben Riehl <torben.riehl@senckenberg.de> Torben Riehl <torben.riehl@senckenberg.de>

OregonStateU Biodiversity

Subject: Oregon State University Integrative Biology Job Opportunity

The Department of Integrative Biology invites applications for a full-time (1.0 FTE), 12-month, fixed term Instructor position in Ecology and Biodiversity, to begin Spring 2022. Reappointment is at the discretion of the Department Head. We seek applications from individuals who utilize innovative approaches to providing inclusive online and in person instruction. Preference will be given to candidates with demonstrated success in development and delivery of courses in ecology and biodiversity. We particularly encourage applications from individuals who belong to underrepresented groups in science. To review the full posting and apply, go to <http://oregonstate.edu/jobs>. Apply to posting # P05054UF. For full consideration, please apply by January 10th, 2022. Contact Tara Bevandich at Tara.Bevandich@science.oregonstate.edu or 541-737-5336 with questions. OSU is an AA/EOE.

Andrew M. Bouwma, Ph.D. he/him/his Senior Instructor Department of Integrative Biology 119 Weniger Hall Oregon State University Corvallis, OR 97331

Mailing Address: 3029 Cordley Hall Oregon State University Corvallis, Oregon 97331

“Bouwma, Andrew” <Andrew.Bouwma@oregonstate.edu>ment operation and research techniques, explain and demonstrate technology and equipment capabilities, operations limitations and outcomes * Mentor assigned staff in the development of technical scientific skills * Author/co-author on papers, proposals, presentations and reports * May supervise lower level staff, wage employees and/or students

PennsylvaniaStateU ResTech ForestConservation

The Schatz Center for Tree Molecular Genetics at Pennsylvania State University is seeking a candidate for a Research Technologist to develop and manage research projects, ensure quality and cost effectiveness, mentor staff, and author or co-author published documents. This position will manage laboratory and field operations for the Schatz Center for Tree Molecular Genetics in research related to forest health and conservation. Responsibilities include field collections, management and execution of work flow to complete research projects using genomics and genecology experiments in forest trees. The position will require leadership in the implementation of field collections for conservation genetics projects, the use of molecular methods; including an ability to troubleshoot DNA/RNA extraction for forest tree species; preparation of data summaries and written reports; contributions to the development and maintenance of field experiments, greenhouse, or growth chamber experiments, and include basic genetic and statistical analyses in a collaborative environment. This position will manage laboratory operations, ensure compliance with safety requirements, contribute to financial management, and participate in broader impacts. The successful candidate will be responsible for the following:

- * Develop, design and conduct one or more small or moderately complex research projects or experiments in line with plan, reviews progress and evaluates results
- * Manage projects of small or moderate size and scope; contribute to determining feasibility of goals and objectives; responsible for assuring quality, cost effectiveness and timeliness of assigned projects
- * Participate in formulating research methods and suggesting options for improving quality and recommending solutions; identify problems and related technical issues leading to long-term solutions by identifying technical approaches for problem solving
- * Coordinate data collection and screening and verify data; conduct analysis of data, interpret and implement research methodology based on outcome of analysis
- * May be responsible for operation and/or oversight of a specialized research area or laboratory

- * May act as liaison with other departments, divisions or organizations to answer questions or provide advice on research projects/experiments
- * Train users in equip-

This position typically requires a Bachelor's degree or higher (Master's degree preferred) plus 7 years related experience or an equivalent combination of education and experience. This is a limited term position funded for one year from date of hire with good possibility of refunding. This position will be located at Penn State in University Park. Review of applications will begin immediately and will continue until the position is filled. Informal inquiries are welcome - contact Jill Hamilton (jvh6349@psu.edu)

https://psu.wd1.myworkdayjobs.com/en-US/-PSU_Staff/job/University-Park-Campus/Research-Technologist—The-Schatz-Center-for-Tree-Molecular-Genetics.REQ_0000022898-1_jvh6349@psu.edu

SantaBarbara BotanicGarden LichenariumTechnician

The Santa Barbara Botanic Garden would like to announce a job opportunity for a Lichenarium Technician.

For more information, and to apply, please visit

<https://recruiting.paylocity.com/recruiting/jobs/-Details/839908/SANTA-BARBARA-BOTANIC-GARDEN-INC/Lichenarium-Technician> Best,

Jill Freeland Director of Human Resources

Santa Barbara Botanic Garden 1200 Mission Canyon Road Santa Barbara, CA 93105 Mobile: 805 708-1779 Office: 805 682-4726 ext. 108 Direct Office: 805 690-1118 she/her I am at the Garden Mondays, Wednesdays, and Fridays I work remotely Tuesdays and Thursdays, available by cell phone and email

Jill Freeland <jfreeland@sbbg.org>

Senckenberg Frankfurt Curator Marine Invertebrates

<https://www.senckenberg.de/en/institutes/-senckenberg-research-institute-natural-history-museum-frankfurt/division-marine-zoology/>

Job posting - Ref. #01-21050 Deadline 30 January 2022

For over 200 years the Senckenberg Gesellschaft für Naturforschung represents one of the leading institutions investigating nature and its diversity. Currently, scientists from more than 40 countries conduct research in the fields of biodiversity, earth system analysis and climate change in seven Senckenberg institutes across Germany.

Following its mission to analyze and document biodiversity in earth system dynamics - to serve science and society, Senckenberg fosters curiosity-driven and application-oriented research. In Senckenberg at Frankfurt we seek to fill the position of a

Curator of Marine Invertebrates (m/f/d)

(tenure-track, full time)

We are looking for an internationally recognized invertebrate zoologist with an excellent research record in integrative taxonomy, systematics, evolutionary and/or ecological research on marine invertebrate organisms. The ideal candidate will apply modern approaches, using innovative methods to unlock scientific information from museum specimens, e.g. through imaging approaches (e.g. CLSM, $\hat{I}_{\frac{1}{4}}CT$, environmental SEM) and/or molecular analysis.

The position will include responsibility and oversight for permanent scientific collections of the Senckenberg Research Institute and Natural History Museum Frankfurt, and preference will be given to candidates with experience in a relevant organismal group that aligns with existing collection strengths. In particular we are looking for candidates with an expertise in polychaetes, echinoderms, corals or sponges. Outstanding scientists working on other relevant taxa are also encouraged to apply. The associated, comprehensive and globally scientifically important collections of marine invertebrates at Senckenberg date back to the early 19th century and comprise scanning electron microscopic-, dry- and alcohol-preserved materials. Collections resources also include an excellent specialist library and digital archive.

Your tasks: - Conduct innovative collection-based research on the taxonomy, systematics and biology of marine invertebrates - Develop the collections and associated resources at the Senckenberg Research Institute and Natural History Museum Frankfurt - Foster our collections as important international research tool through international networking, and development and growth of the specimen collections - Secure external research funds - Actively publish results of your research in international scientific journals - Participate in joint marine research and expeditions - Supervise students at undergraduate and postgraduate levels - Promote collections-based research on marine invertebrates through national and international initiatives and organisations (e.g. IUCN, UN Decade of Ocean Science)

Your profile: - Doctoral degree in organismal biology/zoology or a related field - Expert knowledge of a relevant group of organisms and their systematics - Experience in curating and using invertebrate research collections - Experience with modern research infrastructure and innovative methods, such as molecular genetics or imaging methods - Outstanding research record adequate to your career stage

What can you expect? - A vibrant, international team of scientists with collection-based research programs, focussed on curiosity-driven research and the preservation of Earth's biodiversity - Excellent infrastructures and collaborations opportunities, e. g. in morphology, genomics, evolutionary biology, (paleo-)ecology - An attractive and challenging position in a research institution of international standing - Opportunities to participate in teaching and outreach activities, e.g. in our museum and with collaborating universities - A salary that reflects the responsibilities of the position and the experience of the candidate, based on the collective agreement for public service in the state of Hesse - Life in a vibrant, internationally-minded city (population 750.000), a global hub for transport and culture - Flexible working hours - annual special payment - company pension scheme - 30 days holidays - discounted public transportation in the Rhein-Main area - strong support for work/life balance (certified by "audit berufundfamilie").

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TulaneU 2 BiodiversityTechs

Computer Programmer

The Tulane University Biodiversity Research Institute (TUBRI) is a research center of Tulane's School of Science and Engineering, located on the grounds of the F. Edward Hebert Research Center in Belle Chasse, Louisiana, a suburb of New Orleans. TUBRI houses the Royal D. Suttikus Fish Collection and specializes in biodiversity discovery (primarily involving fishes) and biodiversity informatics research. Henry L. Bart, Jr., Professor of Ecology and Evolutionary Biology serves as TUBRI Director and Yasin Bak?? is Senior Manager of Biodiversity Informatics and Data Engineering for the center. A computer programmer is sought to build cyber-infrastructure for accessing, hosting and sharing images of fish specimens from institutional image repositories and iNaturalist for use by investigators in the newly-funded, NSF Harnessing the Data Revolution Institute project entitled, Imageomics: A New Frontier of Biological Information Powered by Knowledge-Guided Machine Learning. The images will be used in Machine-Learning based, taxonomic identification and morphological trait extraction experiments, aided by a fish anatomy ontology and trees depicting phylogenetic relationships among tested fish species. The successful candidate will perform the following tasks in the Imageomics Institute Project under the supervision of Bart and Bak??.

1. Create automation to process 700,000+ 2D images and associated metadata
2. Extract morphological traits including segmentation, shape outlines of specimens, strings of pixels representing color/pigment patterns from different areas of the fish image, color palette data, histogram data etc. to verify species identity
3. Build software for

- a. Extracting several different types of morphological features from fish images automatically
- b. Calculating the subsets of features (morphological barcodes) useful for identifying clusterings of images based on Genetic Algorithms Feature Selection methods
- c. Implementing a Neural Network design for training computers in fish classification using the extracted morphological traits
- d. Work collaboratively with other Imageomics Institute ML experts to explore deep-learning methods to

capture species identification and trait data from other types of animal images.

Required Knowledge, Skills, and Abilities

1. Image Processing
2. Artificial Intelligence/Neural Networks
3. Genetic Algorithms
4. Working knowledge of following languages (one from each group) Java, C, C++, C#, {Python, PHP, Perl}, {R, Bash, JavaScript}, {ORACLE SQL, MSSQL, PostgreSQL, MySQL}

1. Unix based server management
2. Parallel programming (GPU)
3. Working knowledge of version control system (GIT)
4. Documenting the code
5. Ability to write clear, maintainable, portable code that conforms to standards and practices
6. Cross-platform experience

Required Education and/or Experience College degree (Associates or Bachelors) in Computer Science, Information Sciences, Biology, and related fields. Must have at least 3 years of programming experience
Preferred Qualifications MSc or PhD in computational biology, bioinformatics, biology or a related field
Experience in web-database applications Prior experience with Biological datasets

Other Requirements The position is open to international candidates Candidate should be able to travel internationally

Start date: The position is open for immediate hire. Preferred starting date is 4 February 2022 For additional information about the position, please contact Henry Bart (hbartjr@tulane.edu) or Yasin Baki? (ybakis@tulane.edu)

Apply here: <https://jobs.tulane.edu/position/IRC22108>

Henry L. Bart Jr., Ph.D. Director, Tulane University Biodiversity Research Institute Curator, Royal D. Suttikus Fish Collection 3705 Main Street, Belle Chasse, LA 70037 Voice: 504-394-1711; Fax: 504-394-5045

Professor of Ecology and Evolutionary Biology, Tulane University 400 Lindy Boggs Hall, New Orleans, LA 70118 Voice: 504-862-8283; Fax 504-862-8706

Website: <http://people.tubri.org/hank/> —

Graduate Research Assistant

The Tulane University Biodiversity Research Institute (TUBRI) is a research center of Tulane's School of Science and Engineering, located on the grounds of the F. Edward Hebert Research Center in Belle Chasse, Louisiana, a suburb of New Orleans. TUBRI houses the Royal D. Suttikus Fish Collection and specializes in biodiversity discovery (primarily fishes) and biodiversity informatics research. Henry L. Bart, Jr., Professor of Ecology and Evolutionary Biology serves as TUBRI

Director and Yasin Bak?? is Senior Manager of Biodiversity Informatics and Data Engineering

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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>

UCalifornia SantaBarbara ImagingAssist

UC Santa Barbara's Cheadle Center for Biodiversity and Ecological Restoration is offering a Digital Imaging Assistant (Lab Assistant II) position as part of the Big-Bee project (<http://big-bee.net>), a newly funded US National Science Foundation Advancing Digitization of Biodiversity Collections initiative to understand bee declines via specimen image digitization and trait analysis. Over the course of three years, we will create over one million high-resolution 2D and 3D images of bee specimens, representing over 5,000 worldwide bee species, including most of the major pollinating species. We will develop tools to measure bee traits from images and generate comprehensive bee trait and image datasets to measure recent and deep evolutionary patterns. The Big-Bee network of participating institutions includes thirteen US institutions and partnerships with US government agencies. We will develop novel mechanisms for sharing image datasets and datasets of bee traits that will be available through an open, Symbiota data portal called the Bee Library. Reporting to the Director of the Cheadle Center for Biodiversity and Ecological Restoration at UC Santa Barbara, the Digital Imaging Assistant will collaborate closely with the Director to lead the digitization of bee specimens from natural history collections at UCSB via 3D and 2D imaging. They will help develop novel methods in imaging and anatomical trait measurement, including crowdsourcing measurements via the Notes From Nature community science platform. Applicants for this position are expected from various disciplines because of the cross-cutting nature of the work, and applicants from entomology, media arts, engineering, digital arts, biodiversity data science, museum curation, or related fields are welcome. Job responsibilities include:

1. implement imaging and processing workflows for 2D & 3D specimen imaging; 2. evaluate results to determine

scientific accuracy; 3. organize, manage, and preserve digital files, including raw data, metadata, and derivatives; 4. coordinate undergraduate imaging and research internships; 5. create training and outreach materials in specimen imaging; 6. assist in the overall coordination of the Big-Bee network; 7. and perform other duties as assigned. Preferred candidates will also demonstrate: 1. knowledge of basic principles of photography; 2. knowledge in insect morphology; 3. knowledge about natural history collection databases, particularly Symbiota, and biodiversity data sharing; 4. comfort with diverse software tools (Adobe) and online collaboration platforms (Google Documents, Slack, GitHub); 5. writing and understanding of a scripting language (Python, R); 6. the ability to meet a high level of production on a daily basis and work in a fast-paced, multi-project and dynamic environment; 7. the ability to drive project completion on time and in a detailed manner, as well as self-motivation, intelligence, and strong work ethic; 8. excellent organizational skills, good communication skills including writing and verbal; 9. comfort with handling small delicate objects.

The person will join a research group focused on biodiversity data science and entomology. They will work closely with Cheadle Center for Biodiversity and Ecological Restoration Director, Dr. Katja Seltmann, who also has a background in media arts. The position is based at the University of California, Santa Barbara but includes cooperation with colleagues at other institutions. This is a full-time position (including full benefits) with a starting salary range between \$20.14 - \$21.31/hour. To apply for this position use the UCSB online application portal. Applications for the position will be reviewed starting January 16, 2022. Please send questions to seltmann@ucsb.edu

Katja Seltmann, PhD Katherine Esau Director, Cheadle Center for Biodiversity and Ecological Restoration, UC Santa Barbara Associate Researcher III Vice President-Elect, Systematics, Evolution and Ecology (SysEB) Governing Board, Entomological Society of America

Mailing Address: Harder South, Building 578, University of California Santa Barbara, CA 93106-9615

Cell: (859) 537-9309, Office: (805) 893-2401
github: @seltmann; twitter: @irene_moon; instagram: @irene...moon

<http://begoniasociety.org> <https://www.ccber.ucsb.edu>
Katja Seltmann <seltmann@ucsb.edu>

seltmann@ucsb.edu

UCollege London EvolutionaryBiology

UCL Excellence Fellowship Programme 2021

UCL's Excellence Fellowship Programme seeks to recruit the highest calibre early career researchers from across the globe, supporting clinical or non-clinical researchers to develop an outstanding and innovative research programme and to establish their independent research careers.

The support for this round of fellowships comes from UCL's Eugenics Restitution fund. UCL scientists in the early 20th century were involved in formulating the principles of Eugenics and encouraging their adoption. Policies enacted in the name of Eugenics around the world targeted specific groups of people, including those of lower economic status, ethnic minorities, and people with disabilities. UCL wholly rejects these views and as a step towards redressing these injustices, and as recommended by UCL's recent Eugenics inquiries, we aim to appoint two Excellence Fellows to address the current underrepresentation of groups targeted by Eugenics. The Fellowships will support applicants who have experienced hardship or been disadvantaged in the pursuit of their education and early research career. We therefore particularly welcome applications from the BAME (Black, Asian and Minority Ethnic) community and those with disabilities.

In this round two fellowships in the life and medical sciences are available to be based in the Research Department of Genetics, Evolution and Environment (GEE). Applications are particularly welcomed from candidates using genetics to address questions in ageing and age-related disease; the origin of life, major transitions, the early diversification of eukaryotic life; the evolution of eukaryotic development and cell types; theoretical evolutionary modelling; computational approaches applied to big data; microbiology and disease ecology/evolution; cross-disciplinary applied and translational ecology; community or behavioural ecology (especially relating to plants, insects and/or microbes) or other disciplines in the department: <https://www.ucl.ac.uk/biosciences/gee>. **ROLE DETAILS** Term: Three years funding in the first instance.

Grade and salary: Posts will be offered at UCL Grade 8 (45,610 - 53,757 per annum inclusive of London allowance

and depending on experience). Clinical applicants will be appointed on the appropriate equivalent STR or JDPD scales; Please note that consultant salaries will not be covered by the programme at any point during the fellowship and clinicians will be expected to complete the fellowship prior to taking up a consultant level post.

Closing Date: 4pm, 10th January, 2022

Further information and FAQs about the 2021 UCL Excellence Fellowship Programme and application process is available at <http://www.ucl.ac.uk/slms/research/-excellence-fellowship>. For general enquiries, please contact ucl-fellowships@ucl.ac.uk. Please include 'UCL Excellence Fellowship GEE 2021' in the subject line. Alternatively, applicants can contact the GEE Fellowship Advisors (Dr David Murrell: d.murrell@ucl.ac.uk, Dr Hernan Burbano: h.burbano@ucl.ac.uk) or other members of GEE academic staff to discuss their application.

"Davies, Sarah" <s.k.davies@ucl.ac.uk>

UGeorgia MicrobialGenetics

UGA Genetics is hiring an Assistant Professor in any area of Microbial Genetics, including evolution and ecology. Please consider applying and feel free to reach out with any questions! - Andrea Sweigart

The Department of Genetics at the University of Georgia (UGA) invites applications for a tenure-track Assistant Professor in Microbial Genetics, beginning August 1, 2022. We are broadly interested in biologists who address fundamental questions in genetics and microbiology. The research questions could be basic or translational, including but not limited to the genetic basis of microbial processes, genetic engineering, genomics and evolution, microbiomes, host-microbe interactions, inter-species community interactions, environmental responses, or antimicrobial resistance.

UGA is a research-intensive land-grant university. The hire will be housed in a building shared by the Departments of Genetics, Microbiology, and Biochemistry. Research in the Genetics Department spans a broad range from developmental and molecular genetics to evolutionary biology and ecology, and the department has strengths in functional genomics, chromatin biology, and evolutionary genetics. There are outstanding opportunities for collaborations with faculty across our Life Sciences departments, as well as access to the Georgia

Genomics and Bioinformatics Core, the Biomedical Microscopy Core, and the Georgia Advanced Computing Resource Center. UGA is located in the vibrant city of Athens in the northern Piedmont region of Georgia. Athens is 65 miles east of Atlanta, less than two hours from the Chattahoochee National Forest and southern Appalachian Mountains, and within easy driving distance of the Atlantic coast. Athens is home to a thriving arts and music community and prides itself on its cultural diversity (<http://www.visitathensga.com>).

UGA and the Genetics Department are committed to fostering an environment that is equitable and inclusive, and to increasing the diversity of its faculty and students. We welcome candidates who understand the barriers facing individuals underrepresented in the classroom and in higher education careers. We encourage applications from candidates who promote equity and diversity through teaching, mentoring, research, life experiences, educational background, or service. Competitive applicants will demonstrate a strong research record, a well-developed future research plan, a commitment to teaching and mentoring at the graduate and undergraduate levels, and a plan for promoting diversity, equity, and inclusion.

A Ph.D. (or equivalent) in Genetics, Microbiology, or a related field with one or more years of postdoctoral experience is required at the time of appointment. Candidates should submit application materials electronically using this link: <https://www.uga.jobsearch.com/postings/232242>. Applications must include: 1) cover letter, 2) curriculum vitae, 3) statement of research interests and goals (up to 2 pages), 4) statement of teaching experience and philosophy (up to 2 pages), and 5) statement of past and planned future contributions to advancing diversity, equity, and inclusion (up to 2 pages, upload to "Documents #1" in UGA's automated system). Candidates should also submit names and contact information for three references, who will be asked to provide letters of recommendation. Questions may be directed to the Search Committee at this email address: nathanael.caskey@uga.edu. All applications received by December 31, 2021, will receive full consideration, and review will continue until the position is filled. The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation, or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu).

– Andrea L. Sweigart Associate Professor Department

of Genetics 120 East Green Street Davison Life Sciences Building, C218 University of Georgia Athens, GA 30602-7223

office phone: (706)-542-7001 sweigart@uga.edu
<http://sweigartlab.genetics.uga.edu> Andrea Sweigart
<sweigart@uga.edu>

UMaryland EvolutionaryEntomology

The Department of Entomology <https://entomology.umd.edu/> at the University of Maryland is hiring a *Tenure Track Faculty Position in Risk Assessment & Environmental Protection*. We seek candidates working in areas complementary to pesticide safety and risk assessment, including but not restricted to traditional, organic, and genetically engineered pest controls, their ecological and evolutionary impacts, regulatory issues, human health and socio-economic effects, or related topics. Applicants from a diversity of disciplines and backgrounds, and who work on intersecting fields are strongly encouraged to apply. Because the position is advertised very broadly, evolutionary biologists are very strongly encouraged to apply.

For best consideration, apply by December 15. Position Announcement https://entomology.umd.edu/uploads/4/4/1/3/44130801/-facultyposition_risk/-assessment/-environmental/-protection/-_umdentomology_2021_final.pdf UMD Application Portal <https://ejobs.umd.edu/postings/-88936> Anahi Espindola <anahiesp@umd.edu>

UMichigan BiodiversityGenomicsTech

Working Title: Biodiversity genomics technician

(University of Michigan Job Title): Research Laboratory Specialist

A full-time biodiversity genomics technician is sought to assist with evolutionary genomic research in the multi-user Biodiversity Lab in the Department of Ecology

and Evolutionary Biology, University of Michigan. The technician will manage and implement projects for three Principal Investigators: Drs. Lacey Knowles, Dan Rabosky and Ben Winger. The projects for each PI are distinct, but share a common theme of investigating genomic differentiation and demographic histories of populations in a comparative phylogeographic/phylogenetic context, to better understand the speciation process and the evolution of biological diversity. Principal duties will include:

- Preparation of genomic libraries (using various whole genome and reduced representation approaches) for sequencing - DNA extraction - Sample/project organization and management - Training of students and interacting collaboratively with student researchers - Basic laboratory management (e.g., purchasing and stocking reagents, interfacing with core sequencing facilities)

Depending on the qualifications of the applicant, duties may also include:

- Bioinformatic organization and analysis of data - Database management

Relevant skills and experience include:

- Experience with molecular genetic laboratory techniques including genomic library preparation - Strong organizational and time management skills - Experience with genetic bioinformatic toolkits and pipelines is desirable - Experience with relational databases is desirable

Required Qualifications: B.S. (master's or higher preferred) in biology, genetics, molecular biology or related fields plus relevant experience.

How to Apply: A cover letter is required and should be attached as the first page of your CV. The cover letter should describe the applicant's skills and interests in light of the responsibilities and qualifications listed above. The cover letter should also list names and contact information for 3 references.

Applications must be submitted through the University of Michigan Careers website:

https://careers.umich.edu/job_detail/208497/-biodiversity-genomics-technician Or search for Job 208497 in the keyword search panel at <https://careers.umich.edu>. Review of applications will begin on January 01, 2022. The position is available immediately and ideally the employee will begin in early 2022, but some flexibility is possible. Anticipated salary range is \$40,000 - \$46,000.

Questions about the position can be addressed to the PIs listed above (Email: drabosky@umich.edu, knowlesl@umich.edu, wingerb@umich.edu)

The University of Michigan is an equal opportunity/affirmative action employer.

- Daniel L. Rabosky Associate Professor and Curator
Dept. of Ecology and Evolutionary Biology & Museum
of Zoology University of Michigan Ann Arbor, Michigan
Email: drabosky@umich.edu

Dan Rabosky <drabosky@umich.edu>

UMississippi BiologyChair

Job ad link: <https://careers.olemiss.edu/job/University-Chair-of-Biology-MS-38677/818665600/> Chair, Department of Biology The University of Mississippi

The University of Mississippi invites applications for the full-time, 12-month administrative faculty position as Chair of the Department of Biology in the College of Liberal Arts. The University of Mississippi is an R1 institution in an exciting phase of institutional growth and is located in the city of Oxford, a vibrant community known for its small-town charm and outstanding educational and cultural opportunities. The Department of Biology has both tenured/tenure-track and instructional faculty, research associates, M.S. and Ph.D. students, and one of the largest cohorts of undergraduate majors and most robust course enrollments at the university. It is home to a community with broad research interests and expertise that span the hierarchy of biological organization from genes to ecosystems (for more information visit biology.olemiss.edu).

Candidates for the position of Chair must have a Ph.D. degree or equivalent in any area of the biological sciences and professional accomplishments commensurate with tenure at the rank of Professor, including a history of productive scholarship supported by extramural funding and documented strong graduate and undergraduate teaching experience. We seek a chair who will provide innovative and collaborative leadership to help the faculty shape a shared vision for the department's future and to cultivate exemplary research and teaching. Desired qualifications include experience managing personnel and finances, strong interpersonal communication skills, a commitment to shared governance, a collaborative administrative approach that builds consensus across biological disciplines, the ability to build and manage interdisciplinary partnerships, and dedication to graduate student career development. Candidates with demonstrable commitment and experience in fostering diverse,

equitable, and inclusive communities for research, teaching, and learning are of particular interest.

To apply, visit careers.olemiss.edu. Applications should include: a letter of interest, a complete curriculum vitae, a statement of administrative philosophy, a statement addressing experience with and approaches to diversity, equity, and inclusion, a brief statement of research and teaching philosophy, and a list of at least five references. Review of applications will begin January 18, 2022, and continue until the position is filled. The anticipated starting date is July 2022, but is flexible. Questions about the position may be addressed to the search committee chair Dr. Molly Pasco-Pranger (mpranger@olemiss.edu, 662-915-7097).

The University of Mississippi provides equal opportunity in any employment practice, education program, or education activity to all qualified persons. The University complies with all applicable laws regarding equal opportunity and affirmative action and does not unlawfully discriminate against any employee or candidate for employment based upon race, color, gender, sex, pregnancy, sexual orientation, gender identity or expression, religion, citizenship, national origin, age, disability, veteran status, or genetic information.

Dr. Brice Noonan Acting Department Chair & Associate Professor of Biology The University of Mississippi
bnoonan@olemiss.edu 662-915-6705

Brice P Noonan <bnoonan@olemiss.edu>

UNorthCarolina Charlotte 2 VirusBiol MicrobeCommunities

The Department of Biological Sciences at the University of North Carolina at Charlotte (<https://biology.charlotte.edu/>) invites applications for a tenure-track Assistant Professor position in the biology of viruses including virus-host interactions.

The successful candidate will work primarily in a newly constructed research space as part of a cluster of faculty hires in a new research center. Visit brc.charlotte.edu for more information on this interdisciplinary group of faculty, postdocs, and staff.

For this position we are seeking candidates with expertise in the diversity and biology of viruses from all habitats or organisms, including the phenotype-genotype relationships between viruses and hosts; special consideration will be given to applicants with expertise

in comparative genomics or spatial analyses of viruses. This position is part of a cluster hire of four Assistant Professors. The thematic focus for the cluster hires will be the combination of life and computational sciences, particularly ecology, molecular biology, genomics, and organismal biology as these fields apply to infectious diseases and ecosystem health.

Required qualifications for these positions include: a Ph.D. in the biological, computational or related sciences, excellence in research via a strong publication record, potential to secure extramural funding, as well as a commitment to mentoring and teaching at both the graduate and undergraduate levels. A desired qualification is evidence that the candidate has promoted diversity through outreach to the community and has a commitment to working with diverse students, faculty, and staff.

The successful candidate will be expected to contribute to the teaching mission of Biological Sciences through instruction of undergraduate and graduate courses. The successful candidate will be expected to develop and maintain an externally-funded research program including students. The successful candidate will benefit from, and be expected to fully participate in, team science efforts in the Center such as cross-disciplinary research, grant writing, joint symposia, and curriculum development.

The department supports BA, BS, MS and PhD programs with a diverse body of faculty and students, with multiple hands-on training opportunities. The department is fully committed to providing an inclusive safe and supportive environment and realizing a community that embraces diversity, equity, and inclusion. The new interdisciplinary Center has excellent BSL-2 and BSL-3 wet lab facilities, extensive new shared equipment, several high-performance computer clusters, dedicated space for postdoctoral fellows, graduate students, and staff.

The University of North Carolina at Charlotte is a doctoral, research-intensive urban university, located on an expanding modern campus. The second largest of the 16 UNC system campuses, UNC Charlotte is a diverse and inclusive institution, offering more than 30,000 culturally and ethnically varied students a wide range of undergraduate and graduate degree programs. The University is a Carnegie Foundation Community Engagement campus and an APLU Innovation and Economic Prosperity University. It supports faculty with excellent family and medical leave policies, junior faculty development awards, internal faculty research grant opportunities, and other research opportunities. Charlotte offers a dynamic space to live, work and connect for faculty, stu-

dents, alumni, and staff, with its outstanding cultural, recreational, and business amenities. As the 15th largest U.S. city, Charlotte is consistently ranked as one of the best cities to live, #20 on the 2021-22 list by U.S. News and World Report.

Applications must be made electronically at <https://jobs.uncc.edu> (position #6132) or through this direct link (<https://jobs.charlotte.edu/postings/38303>). Applications must include a cover letter, curriculum vita, contact information for at least three referees, a statement of research interests (maximum 5 pages), a statement of teaching philosophy (maximum 2 pages), a statement of fostering diversity (maximum 2 pages), and PDFs of three peer-reviewed publications.

Please highlight potential contributions to UNC Charlotte and the Bioinformatics Research Center within the statement of research interests. Finalists will be asked during their screening interview to discuss how the topics of diversity and inclusion are incorporated into their teaching and research. Review of applications will begin after January 10. The expected start date is August 15th, 2022.

For questions about the positions or the application process, please contact Adam Reitzel (areitze2@uncc.edu)

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The Department of Biological Sciences at the University of North Carolina

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UNotreDame TeachingEvolution

Assistant Teaching Professor University of Notre Dame, Department of Biological Sciences

Description The Department of Biological Sciences at the University of Notre Dame seeks a broadly trained and innovative biology educator at the Assistant Teaching Professor level to contribute to our Introductory Biology sequence, and to teach specialized, upper-level courses in any area of biology, including ecology, evolution, physiology, and cellular or molecular biology. This renewable, non-tenure track position is available starting

fall semester 2022, and is expected to be a long-term, continuing position with opportunities for promotion.

Our novel Introductory Biology sequence was designed using principles outlined in AAAS Vision and Change, integrates across levels of biology, and uses student-centered and inclusive pedagogical approaches. Within our Introductory Biology sequence, successful candidates would deliver a semester-long undergraduate research experiences course and/or join a team of instructors in an integrative lecture course. Successful candidates will also be asked to develop and teach upper-division courses based on the needs of the department and the applicant's area of expertise. While the position would be primarily teaching intensive, the ideal candidate would also undertake scholarship in pedagogical research or provide research experiences for undergraduates outside their teaching commitment.

Qualifications The candidate must possess a graduate degree in an area of life sciences and have experience teaching at the collegiate level using student-centered, active learning strategies. The candidate should be broadly trained in biology, with expertise in at least one of the following areas: ecology, evolution, physiology, or cellular/molecular biology. Finally, the candidate should have significant research experience to provide mentorship in either course-based or individualized research opportunities for undergraduates.

Preferred Qualifications The preferred candidate will have a Ph.D., and have skills and experience in educational assessment and/or research-based laboratory courses.

Application Instructions To apply online, visit <https://apply.interfolio.com/97419> Applicants will need to provide the following with their online application: - Cover Letter - Current Resume/Curriculum Vitae - Statement of Teaching Philosophy - One page proposal for an upper-division course, including learning objectives.

The Department of Biological Sciences is dedicated to excellence in undergraduate education so as to develop the next generation of leaders in the life sciences. In collaboration with undergraduates, we seek to advance biological knowledge through excellence in research to solve the grand challenges that will shape the future of human health and the environment. The department is highly interdisciplinary and fulfilling the promise of innovative approaches to teaching biology at the collegiate level.

The University of Notre Dame seeks to attract, develop, and retain the highest quality faculty, staff and administration. The University is an Equal Opportunity Employer, and is committed to building a culturally

diverse workplace. We strongly encourage applications from female and minority candidates and those candidates attracted to a university with a Catholic identity. Moreover, Notre Dame prohibits discrimination against veterans or disabled qualified individuals, and requires affirmative action by covered contractors to employ and advance veterans and qualified individuals with disabilities in compliance with 41 CFR 60-741.5(a) and 41 CFR 60-300.5(a).

Review of applications will begin December 3rd, 2021.

The University of Notre Dame, an international Catholic research university, is an equal opportunity employer.

Hope Hollocher <hholloch@nd.edu>

UPennsylvania GeneticsPublicHealth

RESEARCH SCIENTIST POSITION TO LEAD FIELD STUDIES IN AFRICA

One or more positions are available for research scientists to conduct genomics research in Africa and the US. The Tishkoff lab at the University of Pennsylvania uses integrative genomic approaches to study human evolutionary history in Africa and the genetic basis of anthropometric, cardiovascular, metabolic, and immune related traits.

We are seeking research scientists with training and experience with “wet lab” molecular biology and/or genetics techniques. Ideally, they would also have experience doing field work and excellent interpersonal skills. The position would require preparing research and ethics applications in close partnership with African collaborators and government regulatory institutions. The successful candidate(s) would help oversee field work in partnership with African collaborators in remote regions of Africa. The position(s) may require extensive travel to different regions of Africa for periods of up to 6 months, on average, often living in “field conditions”. While in the US, the position would involve functional genomic and/or computational research in the Tishkoff lab at the University of Pennsylvania, studying the genetic basis of adaptive traits as well as genetic and environmental factors influencing disease risk in populations of African ancestry. Candidates will have an opportunity to develop creative, independent projects. There will be opportunities to work together with an outstanding team of collaborators with exper-

tise in statistical and population genetics, translational genetics, public health, and functional genomics.

Candidates should have a masters, PhD and/or MD degree. They must have substantial experience in “wet lab” molecular biology techniques. An ideal candidate would have training in biological anthropology, biology, genetics, molecular biology, evolutionary biology, tropical diseases and/or public health. Starting dates are flexible and research in Africa will not be initiated until COVID restrictions are lifted and travel conditions are safe. Candidates will receive excellent salary and benefits, commiserate with their research experience.

Interested candidates should contact:

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

US NSF DivisionDirector

DATE: December 2, 2021

Dear Society Representatives,

The Directorate for Biological Sciences (BIO) at the National Science Foundation (NSF) is seeking a candidate for the position of Division Director in the Division of Environmental Biology (DEB). NSF is ranked in the top 5 best places to work amongst midsize agencies in the federal government, and BIO is ranked in the top 5 best places to work amongst 411 agency subcomponents in the federal government.

As you may know, DEB supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Information about the Division’s activities may be found at <https://www.nsf.gov/div/-index.jsp?div=DEB>. We hope you share this announcement with your members.

A successful candidate will possess an established record of significant achievement in research administration as well as leadership responsibility in academe, industry, or government. In addition to having a strong record of

research and education accomplishments within his or her technical communities, the Division Director must be experienced and competent in technical, financial, and administrative management.

Appointment to this Senior Executive Service position may be Career, with a salary range of \$174,225 to \$194,516. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Action (IPA). The formal announcement (BIO-EXEC-2022-0002) with further information and exact position requirements and application procedures may be viewed at <https://www.usajobs.gov/GetJob/ViewDetails/622969500> or by calling NSF's Executive Personnel staff at 703-292-2142 (hearing impaired individuals may call TDD 703-292-8044). Deadline for receipt of applications is January 3, 2022.

NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

“Jenkins, Melody C” <mjenkins@nsf.gov>

UUtah Biodiversity

Urban Ecologist position as part of the Sustaining Biodiversity cluster hire. It's a joint position between the Natural History Museum of Utah and City & Metropolitan Planning/Scientific Computing and Imaging at the University of Utah.

<https://utah.peopleadmin.com/postings/124973> Bryn Dentinger Curator of Mycology & Associate Professor of Biology Natural History Museum of Utah (UMNH) 301 Wakara Way Salt Lake City, UT 84108 Museum Office: 801-587-5741 Lab: 801-587-5729 Biology Office (LS207): 801-213-3695

dentingerlab.org @NHMUMycology
dikaryon.wordpress.com mycoilluminati.com

Bryn Dentinger <bryn.dentinger@gmail.com>

UWashington 12month MarinePredatorEvolution

Assistant Professor Without Tenure, Top Marine Predators, School of Aquatic and Fishery Sciences (SAFS)

The School of Aquatic and Fishery Sciences (SAFS) at the University of Washington (UW) has an opportunity for a full-time assistant faculty member without tenure who conducts research on marine top predators such as marine mammals, seabirds, turtles, and large fishes. This position has a 12-month service period and will be supported by three months of salary annually from the University. The candidate will need to make up the other nine months of salary with research grant funding.

This position will engage in research, teaching, or service that fulfills our commitment to advancing equity and inclusion and fully engages audiences from a wide spectrum of backgrounds. Broadly, position responsibilities are as follows:

§Research: lead a strong, extramurally funded research program

§Teaching: teach one undergraduate course annually in the field of marine top predators

§Mentorship: mentor graduate and undergraduate students, and postdoctoral researchers

§Service: serve on committees and panels as needed

There will be opportunities for collaboration with external partners including government agencies, tribal governments/First Nations, and non-governmental organizations. This position will contribute to the University's distinctive educational objectives, which include interdisciplinary perspectives, intercultural understanding, and concern with social responsibility and the ethical implications of knowledge and action. The position will come with a start-up package that includes funding for graduate students.

We welcome the full range of approaches, from field observations and data analysis to laboratory or modeling.

Qualified candidates will have a PhD in Biology or other relevant field (or foreign equivalent). PhD conferral required by date of appointment. This position is not eligible for visa sponsorship.

For more details and instructions on how to apply, visit the position description here.

Amy Fox (she her), HR Manager

UW School of Aquatic & Fishery Sciences | 206-616-5893
Office Hours: Monday - Friday, 8:00-5:00 | FSH Suite 116 | Website Online only Mondays and Fridays.

The University of Washington acknowledges the Coast Salish peoples of this land, the land which touches the shared waters of all tribes and bands within the Suquamish, Tulalip and Muckleshoot nations.

AMY FOX <amyfox@uw.edu>

Other

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Archbold Florida Intern FishEvol

Dear colleagues,

We are seeking an intern to support exciting new experimental research testing how genetic drift and gene flow affect adaptation and population persistence in the face of novel environmental stressors. Led by Drs. Sarah Fitzpatrick, Jessica Judson, and Gideon Bradburd from Michigan State University and Dr. Betsie Rothermel at Archbold Biological Station, this NSF-funded research seeks to understand the impact of gene flow on the genomic rescue and adaptive potential of small, inbred populations in the face of climatic change. The intern will live and work at Archbold Biological Station in south-central Florida, where they will play a key role in initiating planned experiments with eastern mosquitofish (*Gambusia holbrooki*). The intern will also conduct independent research under the guidance of the postdoctoral researcher stationed at Archbold. The duration of the internship is approximately 7 months, with a desired start date of March 1, 2022. We will offer some flexibility in start date for excellent candidates.

Duties of the position include: * Caring for eastern mosquitofish in both indoor (laboratory) and outdoor tanks * Conducting monthly censuses of outdoor mesocosms, including water quality monitoring * Running lab trials to test heat tolerance of mosquitofish with different genetic backgrounds * Assisting with set-up and maintenance of an array of large, experimental tanks * Assisting with mark-recapture and processing of mosquitofish (weighing, measuring, elastomer marking,

fin clipping) * Participating in education & outreach activities

Who should apply? Recent graduates with an undergraduate degree in biology, environmental science, or a related field seeking training and experience in a research setting, particularly those contemplating graduate school

Traits of a successful intern include: * Highly motivated and enthusiastic about living and working in a rural field-station setting * Previous field and laboratory experience, particularly with fish; must be familiar with freshwater fish care (please specifically address your skills with fish in cover letter) * Detail-oriented with respect to following sampling protocols and managing data * Proactive communicator with other team members * Capable of doing physically demanding work in the hot, humid subtropical climate of southern Florida * Coursework in statistics, as well as familiarity with genetic methods for conservation, are also advantageous

Expectations * The intern can expect to work an average of 20 hours per week assisting with the NSF-funded mosquitofish research, typically but not always Monday-Friday. * The remaining time will be devoted to designing and implementing an independent, field- or laboratory-oriented project related to mosquitofish biology (options include behavior, physiology, or other approved topics) * There will be opportunities to assist with other long-term monitoring and research projects in Archbold's Herpetology & Restoration Ecology program, as well as lead environmental education activities for children attending summer camp. * Occasional evening and weekend hours may be required, particularly with respect to fish care.

Benefits of an Archbold internship include: * Research

interns receive lodging at the Station (shared housing, no pets) and a weekly stipend of \$245 * Completion of an independent research project will hone your skills in every aspect of scientific research, from experimental design and data collection to oral and written presentations * Interaction with accomplished research faculty, Drs. Sarah Fitzpatrick and Betsie Rothermel, who can give insight into two distinct academic paths (faculty at R1 institution and research faculty at an independent biological station, respectively), and close interaction with a postdoctoral researcher who will provide guidance on independent research and opportunities for professional development and outreach * Experiences that will strengthen your future graduate school or job applications * Opportunities to explore exciting Florida ecosystems and natural areas during your free time

How to apply: * Applicants must have U.S. citizenship or current authorization to work in the U.S. * Email the following (preferably as one attachment in PDF format) to Dr. Jessica Judson (judsonj2@msu.edu), including 'Intern position' in subject line: 1) Cover letter describing your qualifications and indicating your availability 2) Current resumé or CV, including GPA and a list of relevant coursework 3) Contact information for three references, at least two of which should come from academics

Deadline to apply is January 16th

Visit the Archbold website for more information on the station and internship: <http://www.archbold-station.org/> Visit the Fitzpatrick Lab website for more information on the mosquitofish

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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>

Call 3 ESEB Awards

****Godfrey Hewitt Mobility Award 2022 - Call for Applications****

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from 1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great

believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB annually offers mobility grants for young scientists in his name.

Closing date: FRIDAY, 21 JANUARY 2022.

Eligibility:

The award is open to PhD students or postdoctoral scientists who are, at the closing date for applications, within 6 years of the start date of their PhD and ESEB members. In addition, applicants will be considered who are more than 6 years from the start of their PhD if they have had career breaks, worked part-time, or for other reasons have not worked continuously. Applicants who have previously received a Godfrey Hewitt mobility award are not eligible. The maximum single award will be 2000 Euros. It must be used to support fieldwork or a period of research at a lab that you have not previously visited. There is no restriction on the country of residence or nationality of the applicant.

Due to the COVID-19 situation, and in order to promote responsible and safe travel without compromising the quality of research, grantees of the 2022 ESEB Godfrey Hewitt mobility awards will be allowed to travel within 24 months from the date of announcement of the winners.

Application procedure:

Your application should be sent as a single PDF file to Ute Moniatte at the ESEB office, office@eseb.org. It should include your name, current status and institution, your PhD start date, your ESEB membership number, a description of the work to be carried out (maximum 500 words), an outline budget with brief justification (maximum 100 words) and a signed statement from your PhD supervisor or postdoctoral adviser (maximum 100 words) explaining why the work cannot be funded from your home institution or your proposed host institution.

Please renew your ESEB membership or join the society preferably only in January, as ESEB is changing its membership system at the end of 2021.

Applications will be considered by a committee chaired by Constantino Macias Garcia. The aim will be to announce decisions before the end of March 2022. The committee will consider the following key criteria:

1. The value of the proposed mobility in terms of its expected output and impact on the applicant's career. The committee prefers projects that are:
 - a. Not a core component of the applicant's existing PhD or postdoctoral project, but a new venture.
 - b. Clearly based on the applicant's own initiative
 - c. Likely to be completed and have definable output within the award period
 - d.

Have the potential to lead to larger future projects or to enhance the applicant's career in evolutionary biology

2. The need for the GHM award, i.e. the potential for the funding provided by ESEB to make a difference, in relation to resources already available through the home or host institution.

Please endeavour to address these points in your application.

Best wishes, Ute Moniatte, ESEB Office Manager.

European Society for Evolutionary Biology Homepage: eseb.org Email: office@eseb.org

John Maynard Smith Prize 2022: Call for Nominations

Each year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

Nomination

The prize is open to any field of evolutionary biology. The candidates for the 2022 prize normally must have begun their PhD study after JANUARY 1, 2015. In addition, nominees more than 7 years from the start of their PhD will be considered, if they have had career breaks taken for family, caring or health reasons; the nature of the reason must be given. The nomination of the candidate may be by a colleague or by self-nomination. Nominations should be sent as a single PDF file to Ute Moniatte at the ESEB office (office@eseb.org). The nomination should include a brief justification, the candidate's CV and list of publications (indicating three most significant papers), a short description of future research plans (about 1-2 pages), and a letter from the candidate approving the nomination. A letter of reference from another colleague (or, in case of self-nomination, two letters) should be sent directly to Ute Moniatte.

Nominations and letters of support should arrive no later than FRIDAY, **JANUARY 14, 2022. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by the ESEB Vice President Andrea Betancourt, will evaluate the nominations and inform the winner

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DevGenesEvolution CallPapers

Dear Colleagues may I draw your attention to the following Call for Papers in Development Genes and Evolution, which may be of interest to evolutionary biologists whose research touches upon stem cell biology within the context of the evolution of regeneration mechanisms and asexual life histories, including phylogenetic and devo devo approaches.

Call for Papers: Special issue on Stem cell biodiversity and innovation

The current focus in stem cell research is limited to a handful of tractable genetic model systems from only a few lineages. However, this fails to embrace the diversity of stem cell systems across the Tree of Life. As such, our understanding of what constitutes a stem cell and how it is regulated in different organisms and at different life stages is highly polarised. This issue aims to fill gaps in our understanding of stem cell distribution and regulation across eukaryote diversity, and thereby contribute to better defining the stem cell concept.

Topics of particular interest include:

How stem cells contribute to adult homeostasis or normal physiological turnover in poorly studied taxa
Innovative methods to identify and analyse stem cell lineages from molecular to microscopically
The role of stem cells in alternative life history strategies (asexual reproduction, dormancy etc)
The identification of novel stem cell systems in traditional model systems
Comparative analysis of stem cell properties within a phylogenetic context
The characterisation of stem cell "niches"
Conceptual and theoretical advances in defining stem cells

We invite submissions of review articles, original research, and short communications. However, we particularly encourage the publication of short reports highlighting novel findings or preliminary experiments that address a specific hypothesis to advance our understanding of the stem cell concept.

Submission deadline: 30 April 2022

Please contact the Associate Editor Dr Ildiko Somorjai atimls@st-andrews.ac.uk for submission enquiries. Further information on editorial policy is available on the journal's website: <https://www.springer.com/journal/427/updates/19757204> Development Genes and Evolution

/

www.springer.com Best wishes

Ildikó

Dr Ildikó Somorjai School of Biology The Willie Russell Laboratories University of St Andrews, Scotland, UK
Email: imls@st-andrews.ac.uk

Ildiko Somorjai <imls@st-andrews.ac.uk> Ildiko Somorjai <imls@st-andrews.ac.uk>

Editorial roles at EvolutionLetters

Three Opportunities with Evolution Letters

Communications Editor, Preprints Editor and Associate Editor

*1) ** Communications Editor*

Evolution Letters seeks a new Communications Editor to work with our authors to help promote new research to wider audiences. The role will be particularly well suited to an early career evolutionary biologist with a keen interest in science communication.

The Communications Editor is responsible for the following:

- Liaising with authors of accepted articles to coordinate promotion of their papers.
- Producing day-to-day Twitter content for the journal.
- Maintaining the Evolution Letters blog, developing blog content and soliciting blog posts from authors.
- Developing other communication channels, including the expansion of the Evolution Letters YouTube channel and exploration of other social media platforms such as Instagram.

The time commitment required varies depending on publication rates, but typically averages around 2 hours per week.

Applicants must have a broad interest in evolutionary biology, science communication, and the use of social media in promoting scientific research. You should be self-motivated, able to work unsupervised, able to deliver to deadlines, and familiar with the journal Evolution Letters and the work of its societies (ESEB and SSE). The successful applicant will have the opportunity for a full hand-over of the role with the exiting Communications Editor.

The Communications Editor receives the following benefits:

- \$2000 annual honorarium
 - ESEB membership
 - Personal development of science communication skills
 - Experience of working within an editorial team to promote high quality science
- *2) **Preprints Editor*

Evolution Letters seeks a new Preprints Editor to help identify exciting preprints that fit the journal's remit and scope. The role will be suited to a mid-career evolutionary biologist with a keen eye for the best research across the field of evolutionary biology and a reputation for producing high-quality research.

The preprints editor is responsible for the following:

- Regularly checking bioRxiv and other preprint servers for exciting evolutionary research
- Contacting corresponding authors of preprints and inviting them to submit the work to *Evolution Letters.*

It is expected that you would spend 1-2 hours per week identifying the best research and contacting / corresponding with authors. The successful applicant will have the opportunity to discuss with the Editor-in-Chief what sort of papers would be ideally suited to the journal. The role is distinct from an Associate Editor role; you would not be expected to handle preprints that are subsequently submitted to the journal.

*3) **Associate Editor with specialism in Experimental Evolution*

Evolution Letters seeks a new Associate Editor whose research expertise includes experimental evolution. The role will be suited to an early-, mid- or late-career group leader who has a reputation for carrying out cutting-edge research using any experimental evolution system.

You will be responsible for the following:

- Handling manuscripts, primarily but not exclusively, covering experimental evolution research
- Encouraging authors of cutting-edge experimental evolution research to submit their manuscripts to *Evolution Letters *e.g. after hearing the work presented in seminars or at conferences.

It is anticipated that you will handle up to 20 (probably fewer) manuscripts per year, using the ScholarOne manuscript management system. Manuscripts are initially assessed for suitability by the Editorial Office and the Editor-in-Chief, before the E-i-C assigns them to

an associate editor. You will then make a decision on whether manuscripts are sent to review, identify suitable reviewers and make an editorial recommendation when reviews are returned.

All three roles provide an honorarium of US\$2000 per annum and membership of ESEB.

How to apply:

Please send a 2-page CV along with max. 1 page cover letter explaining why you are interested in the role to the Editor-in-Chief, Jon Slate (j.slate@sheffield.ac.uk). The Editor-in-Chief welcomes enquiries about the roles.

Deadline for applications: Friday 17th December 2021

Interviews will be held remotely by video call in early January 2022, with the successful applicants taking up their roles as soon as possible afterwards.

Evolution Letters and its parent societies wish to make evolutionary biology inclusive and accessible to a wide, diverse audience. We believe that building a diverse editorial board is a crucial part of this. We strongly encourage applications from people that are currently under-represented on our board, including people of colour, people from countries outside of Europe and North America, people with disabilities, and people who are LGB, Trans or Non-Binary.

Professor Jon Slate (he/him/his) School of Biosciences University of Sheffield

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for a general audience, public outreach seminars, public exhibitions, etc.

There will be a single call per year with a total budget of 20,000 Euro. A single project can be funded with up to 4,000 Euro, but smaller projects are welcome. We are requesting a report after one year, at which time the project should be completed.

Please use the ESEB application form to submit your proposal and note the word limits given herein. The form can be downloaded at the ESEB website: <https://eseb.org> Proposals will be accepted until *15th MARCH 2022* and should be submitted by email to the ESEB office (Email: office@eseb.org; Subject: Outreach 2022). Note that 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!

Please note that scientific meetings are not supported by ESEB Outreach Initiative funds. These fund also do not work as a mechanism for continual funding. Once the potential of a project has been demonstrated, this should be used as a basis to convince other funding sources on continuation funds. Hence, submissions by a group that has been successful in past calls may be penalized if the proposals are mere follow-ups of previous projects.

The applications will be evaluated by the Outreach Initiative Committee:

Josefa Gonzàlez, Chair (ES) Delphine Sicard (FR) Rhonda R. Snook (SE) Hildegard Uecker (DE) Karine Van Doninck (BE)

– Dr. Ute Moniatte - ESEB Office - office@eseb.org European Society for Evolutionary Biology - www.eseb.org ESEB Office <office@eseb.org>

ESEB Outreach Initiative Fund Deadline Mar 15

****ESEB Outreach Initiative Fund****

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Initiative Fund for projects that promote evolution-related activities. The goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, translation of evolutionary material (books, films, and websites) intended

Harrimaniidae spp Norway

Dear All

I am looking for Harrimaniidae_spp_Norway samples

That would be very helpful for my project

thank you

Pierre

Pierre.pontarotti@cns.fr Pierre Pontarotti DR CNRS Evolutionary Biology team. UMR MEPHI D-258, CNRS SNC5039

19-21 Boulevard Jean Moulin 13005 Marseille

tel 0413732425 / 0695177328 <https://sites.google.com/view/pontarotti/> we are organizing the 24th evolutionary biology meeting at Marseilles September : 20-23 2022 aeb.fr < <https://ebm24.sciencesconf.org/> >

< <https://twitter.com/pontarotti> >

PONTAROTTI Pierre <pierre.pontarotti@univ-amu.fr>

NatureTech Biodiversity Jobs

Checkout <https://naturetech.io/biodiversity-jobs> for science jobs in naturetech.

Jonathan Clegg <clegg.jonathan@rocketmail.com>

NewPhytologist CallForTansleyMedal

Dear all,

The New Phytologist Tansley Medal is an annual award that celebrates an outstanding contribution to plant science by an individual in the early stages of their career (including students and any researcher with up to five

years' experience since gaining / defending their PhD, excluding career breaks).

Shortlisted candidates are invited to author a Tansley insight review for publication in New Phytologist, and the winner receives a prize of $\frac{1}{2}$ 2,000 (GBP).

Submissions for the New Phytologist Tansley Medal 2022 are open, and the submission deadline is 15 January 2022!

More information on the rules and selection procedure, and the application form, can be found here: <https://www.newphytologist.org/awards/tansleymedal> Need inspiration, or have questions? Register for the third in our series of New Phytologist Now - Tansley Medal winners webinars, with Liana Burghardt, on 16 December. It's free to attend! The first two webinars will be available to view on-demand soon. You can find more information and sign up for updates here: <https://www.newphytologist.org/events/now> With best wishes, Mike

Dr Mike Whitfield (he / him) Development Coordinator, New Phytologist Foundation

newphytologist.org < <http://www.newphytologist.org/> > Twitter: @NewPhyt < <https://twitter.com/newphyt> > Instagram: @NewPhyt < <https://instagram.com/newphyt> > Facebook: fb.com/NewPhytologist < <https://www.facebook.com/NewPhytologist> >

The New Phytologist Foundation, registered charity number 1154867

2020 Impact Factor 10.151

Early career researchers - apply for the Tansley Medal! Click here to apply < <https://www.newphytologist.org/tansleymedal> >

Call for papers - Plants, People, Planet Special issue: Fruit in focus < <https://www.newphytologist.org/news/view/287> >

COVID-19. We are mindful that many aspects of day-to-day life are currently affected by the COVID-19 pandemic, and appreciate that this may delay activities or responses. If you require any assistance, or if we can help in any way, please don't hesitate to contact us.

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

Online ESEB STN Speciation Jan11

Dear colleagues,

We are pleased to announce a new monthly online seminar series, launching on the 11th of January 2022. This series is organised by a Special Topic Network called "Integration of speciation research" (IOS), funded by the European Society for Evolutionary Biology (ESEB). The network aims to establish a framework for integrative speciation research, by developing tools for comparative analyses (e.g. a publicly available speciation database) and organising activities (seminars, workshops) to facilitate discussion and knowledge exchange between all corners of speciation research. More information can be found on the IOS network website [<https://speciation-network.pages.ist.ac.at/>] .

The seminar series will centre around the broad aims of the network, which are: i) To understand the relative importance of different barriers to gene flow and outline best practices to measure them. ii) To survey the role of interactions and coupling between barriers in increasing reproductive isolation. iii) To seek common genomic patterns underlying barriers as reproductive isolation increases. iv) To bridge the knowledge gap between what is known of speciation mechanisms at a microevolutionary scale and the knowledge of speciation rates & their determinants at a macroevolutionary scale.

The first instalment of the IOS seminar series aims at bridging the gap between macroevolutionary patterns and microevolutionary mechanisms, with a focus on bigger questions in speciation research. We will welcome Leonie Moyle (Professor, Department of Biology, Indiana University) and Daniel Matute (Assistant Professor, Department of Biology, University of North Carolina) as speakers. The session will take place on 11th of January 2022 at 5 pm CET, lasting 1.5 hours. The first hour is dedicated to talks and questions, and the final 30 minutes is dedicated to a discussion session. To attend the sessions live, please follow the links below.

Webinar link for the talks: [<https://istaustria.zoom.us/j/98592407342?pwd=NUJjeUthamREaDhNRWdhQzBEYkF5dz09>] Webinar ID: 985 9240 7342 Passcode: 577749

Discussion session link: [<https://istaustria.zoom.us/j/91522862933?pwd=VE1uZkNSU0xqMVVfbXVCalFBNzlQZz09>] Meeting ID: 915 2286 2933 Passcode: 088268

Talks (but not discussion sessions) will be recorded and made available on the IOS [<https://speciation-network.pages.ist.ac.at/> | website] .

The IOS network does not only aim at scientific integration, but 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 (January) and 8 am CET (February) etc.. 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 seminar series programme will be 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 network can sign up to the IOS network mailing list [<https://docs.google.com/forms/d/1Q67v0PXQg6pFWCh8n-fLJyyWiHrMCRvK7jgwurJQIWM/edit>] .

We hope to see many of you on the 11th of January, and we wish you a very pleasant end to the year in the meantime. If you have questions, please contact jonna.kulmuni@helsinki.fi.

The STN IOS organising committee,

Jonna Kulmuni Chris Cooney Sean Stankowski Carole Smadja Nick Barton Sonal Singhal Roger Butlin Joana Meier Richard Merrill Konrad Lohse Liz Scordato

– Dr. Carole Smadja Directrice de recherche CNRS - CNRS Senior researcher Directrice adjointe de l'ISEM - ISEM Deputy director carole.smadja@umontpellier.fr Tél : +33 (0)4 67 14 92 70

Institut des Sciences de l'Evolution de Montpellier - Institute of Evolutionary Science of Montpellier (ISEM) [<mailto:carole.smadja@umontpellier.fr>] [tel:+33 (0)4 67 14 92 70]

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>

“Weinreich, Daniel” <daniel_weinreich@brown.edu>
 “Weinreich, Daniel” <daniel_weinreich@brown.edu>

Passing of Bill Hill

Bill Hill passed away on Friday, December 17, 2021, aged 81. He was a leading figure in quantitative and population genetics, and their application to animal breeding. He mentored many students and postdocs who have become distinguished figures in their own right. He will be sorely missed by his family, friends and colleagues.

Brian Charlesworth

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 UK

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CHARLESWORTH

Brian

<Brian.Charlesworth@ed.ac.uk>

Sequencing Costs

Dear all,

Recently, the iconic NHGRI plot of sequencing cost since 2000 (<https://www.genome.gov/about-genomics/fact-sheets/DNA-Sequencing-Costs-Data>) got me thinking about the cost of sequence data acquisition since, say, 1960.

As I understand things, the super-Moore's-Law decline in sequencing costs starting in 2007 corresponds to the end of Sanger sequencing for bulk work. But what about earlier shifts in DNA technology? For example, what happened when ABI fluorescent-labeled ddNTPs replaced radiolabeled? Ditto Sanger sequencing vis $i_j \frac{1}{2}$ vis RFLPs? RFLPs vs protein sequencing? Did the (exponential) slope change at those moments as well?

Does anyone have any data on that? Or know where I might look?

Thank you! Dan Weinreich

SSE Diversity Committee Seeks Two New Members

The Society for the Study of Evolution (SSE) Diversity Committee (DC) seeks to add two new members starting in late January of 2022. The DC works to support members from all backgrounds through several main actions: by broadening representation to the SSE Executive Council, by pursuing initiatives that support historically excluded groups, and by creating an inclusive, accessible environment at the Evolution conference and in evolutionary biology in general.

Applicants should submit a brief (1-2 page) statement of interest outlining three items on which applications will be evaluated: 1) their experience with Diversity, Equity, and Inclusion (DEI) service; 2) any ideas, priorities, and/or events they plan to contribute during their 3-year term; 3) the unique elements of their perspective/background that they bring to the committee. We are especially in search of members who have experience in leading and completing successful projects related to equity and inclusion, even in challenging circumstances. In previous years, the majority of our applicants have been graduate students and postdoctoral researchers. We encourage applications from individuals who are in secure or post-tenure academic or non-academic positions. Note that the needs of the committee change every year, and we will be again welcoming early career members in upcoming years. Applications should also confirm:

- career stage and institutional affiliation
- membership in SSE
- past attendance at Evolution conferences

Applicants must be members of SSE (join or renew your membership here: <http://bit.ly/joinSSE>) and have attended at least one Evolution conference in the past.

Many of the DC's initiatives are created and operated with the DCs of our sister societies, the American Society of Naturalists (ASN) and the Society for Systematic Biologists (SSB). Past or ongoing efforts of the SSE DC include:

- Development and administration of a climate survey to assess inclusion and equity in evolutionary biology,

in collaboration with ASN and SSB.

- Working closely with a diversity consultant to form SSE's mission with respect to diversity, equity, and inclusion, to assess the inclusivity of SSE's policies and practices, and to develop a strategic plan for making SSE more supportive and inclusive moving forward.
- Applying for a grant to consult social scientists on best practices for achieving equity in awarding
- Data collection and analysis regarding the demographic composition of SSE
- Creation of guidelines on best practices for awards procedures
- Events at the yearly Evolution conference, including Story Collider and mixers to build community among LGBTQ+ biologists, biologists with disabilities, biologists of color, biologists at primarily undergraduate-serving institutions, and parents (see more info here <https://www.evolutionmeetings.org/-diversity-at-evolution.html>)
- Improving accessibility at the Evolution conference for scientists with disabilities, scientists of marginalized genders, and scientists who are nursing/caretaking
- See our ongoing initiatives here <https://www.evolutionsociety.org/news/display/2020/9/-29/acting-on-our-commitment-to-diversity-equity-and-inclusion-dei-in-sse/> More information about the SSE DC can be found on our web page: <http://www.evolutionsociety.org/content/diversity-committee.html>. Examples of prior initiatives, such as diversity events that were planned for the Evolution 2021 meeting, can be found on the meeting website <https://www.evolutionmeetings.org/workshops-and-networking-events.html> Please submit your application by December 20, 2021 to diversity@evolutionsociety.org. Questions may also be directed to this email address.

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

SSE Graduate Research Excellence Grants

The Society for the Study of Evolution is pleased to announce the 2022 R. C. Lewontin Early Award < <https://www.evolutionsociety.org/content/society->

[awards-and-prizes/graduate-research-excellence-grants/rc-lewontin-early-award.html](https://www.evolutionsociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants/rc-lewontin-early-award.html) > competition. These grants are part of the Graduate Research Excellence Grants award program < <https://www.evolutionsociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants.html> > and are for students in the 1st or 2nd year of their PhD program. This award is not limited to students in the United States. Awards will range from \$1,500 to \$2,500. Proposals will be due February 23.

Learn more here: <https://www.evolutionsociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants/rc-lewontin-early-award.html> -

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communications@evolutionsociety.org

Sweden 2FieldAssist SiberianJays

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

For the upcoming field season spring 2022 (1.3.-31.3.2022), we are looking for two highly motivated, expenses paid field volunteers to join our field project (main responsible PD Dr. Michael Griesser, University of Konstanz). The study site is located near Arvidsjaur, Swedish Lapland. An overview over our work can be found here: <https://www.youtube.com/watch?v=-JaH6wjAYAiE> Our current project investigates social interactions of Siberian jays. The work of the field volunteers will be to help with a population census, behavioural observations, catching and colour-ringing birds, blood sampling, and data management. This work will give insight into a long-term study system and will be carried out in managed and pristine boreal forests.

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

Qualifications: (1) Skiing skills (X-country or downhill) (2) Preferably bird ringing and mist-netting experience (3) Previous field experience (4) Ability to work in small teams and sociable personality (5) Driving license (6) Fluent in English (7) Cov19 vaccinated

We will cover for accommodation, travel expenses from and to the study site (in total up to 300 Euros), as well as the living expenses.

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

Applications received until 18 Jan 2022 will be given full consideration.

Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

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

Trinidad ResInternships GuppyEvolution

Research Internships - Ecology and Evolutionary Biology

Research interns are needed to assist in a multi-disciplinary, multi-investigator, experimental study of the evolution of species interactions in Trinidad, West Indies. The research is led by Professors David Reznick (University of California, Riverside), Joseph Travis (Florida State University), Tim Coulson (University of Oxford), and Ron Bassar (Williams College). — —We seek to integrate multiple biological fields for the study of these interactions in experimental populations of guppies and killifish in Trinidad. Duties include assisting in monthly censuses of guppy populations in montane streams. The monthly censuses include long hours in the field and laboratory. — —There will also be 12 days off between each census when interns can pursue an independent project.

Interns will be required to spend a minimum of 3-months in Trinidad, with possibility of extension. There are potential start dates in November 2021 and every month thereafter until September 2024. We will cover all — travel and living expenses and provide housing.

Qualifications: We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some additional field research experience before doing so. — —Research will take place in semi-remote areas of Trinidad sometimes under bad weather conditions.

Applicants must be able to live and work well with others. Research will involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

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

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

Ron Bassar Assistant Professor Department of Biology Williams College 59 Lab Campus Drive Williamstown, MA 01267 Phone: 413-597-2119 College Webpage:<https://biology.williams.edu/profile/rdb4/> Personal Webpage:www.ron-bassar.squarespace.com The Guppy Project:www.theguppyproject.weebly.com Ron Bassar <rdb4@williams.edu>

UTexas ElPaso REU Evolution

REU Opportunity Summer 2022: “Research Experience for Undergraduates in Chihuahuan Desert Biodiversity” - DEADLINE MARCH 7, 2022

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. Mentors involved with this program conduct research in diverse aspects of ecology and evolutionary biology of extreme environments. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

The program provides:

* High quality research experience in ecology and evolutionary biology in the field and/or lab * Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP and/or other Chihuahuan Desert field sites * One-on-one and group mentoring from active research faculty in multidisciplinary fields * Training in bioethics and other relevant professional skills

The program includes:

- * \$6000 stipend for 10 weeks
- * Housing in shared apartments and field station
- * Travel reimbursement of up to \$600

For more information on the program, research projects or to apply please visit: www.utep.edu/couri/-programs/cdb-reu/ Enquiries: CDB-REU@utep.edu

*The format of this program is contingent on whether there are restrictions on travel and housing due to Covid-19.

mlmoody@utep.edu

Zuckerkanl Award Winner

This year, 2021 marks the third year in a row that the reinstated Zuckerkanl Prize has been awarded. This is an award for the top paper published in *Journal of Molecular Evolution* to appear in a print issue during the calendar year, as judged by a committee, in honor of Founding Editor Emile Zuckerkanl. The award committee consisting of Michelle Meyer, Joshua Rest, and Ashley Teufel was assembled and the entire editorial board was polled for nominations to the committee.

Among the papers that were nominated, three received particularly serious discussion from the committee. The runner up papers are listed below and reflect important advances in molecular evolution. Brintnell et al. (2021) presented a timely evolutionary study indicating that

SARS-CoV2 was preadapted to infect humans. Moyer et al. (2021) presented a new tool for studying the evolution of metabolic networks with promising utility towards a greater understanding of the general rules of the nature of metabolic capabilities and structures in different organisms.

I am pleased to announce that “Pheromone gene diversification and the evolution of courtship glands in plethodontid salamanders” by Herrboldt, Steffen, McGouran, and Bonett (Herrboldt et al., 2021) is the Zuckerkanl Prize Award winner for 2021. This study integrates our understanding of duplicate gene fates with comparative salamander biology in showing how subfunctionalization contributed to differences in courtship glands in different species, with implications for the genotype-phenotype map of courtship differences between species. This integrative study brings together analysis from the molecular and more organismal levels with transcriptomic data to better understand lineage-specific biology. *Journal of Molecular Evolution* is proud to congratulate the authors on this work and the award.

References

Brintnell E, Gupta M, Anderson DW (2021) Phylogenetic and Ancestral Sequence Reconstruction of SARS-CoV-2 Reveals Latent Capacity to Bind Human ACE2 Receptor. *J Mol Evol.* 89:656-664. doi: 10.1007/s00239-021-10034-0.

Herrboldt MA, Steffen MA, McGouran CN, Bonett RM (2021) Pheromone Gene Diversification and the Evolution of Courtship Glands in Plethodontid Salamanders. *J Mol Evol.* 89:576-587. doi: 10.1007/s00239-021-10026-0.

Moyer D, Pacheco AR, Bernstein DB, Segri D (2021) Stoichiometric Modeling of Artificial String Chemistries Reveals Constraints on Metabolic Network Structure. *J Mol Evol.* 89:472-483. doi: 10.1007/s00239-021-10018-0.

David Liberles with Michelle Meyer, Joshua Rest, and Ashley Teufel

David A Liberles <daliberles@temple.edu> David A Liberles <daliberles@temple.edu>

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AMUPoznan EvolutionaryImmunogenetics

Postdoc: AMUPoznan Evolutionary Immunogenetics

Post-Doc in an NCN-funded project aiming to investigate coevolution at the level of genes between Lyme disease agent, *Borrelia afzelli*, and its rodent host, is offered by Radwan lab at AMU (<https://evobio.home.amu.edu.pl/>). The candidate should hold PhD degree in biological sciences or bioinformatics and should have significant publication record in the area of evolutionary biology, molecular genetics or bioinformat-

ics. The employment is offered for three years, starting ideally in January 2021, but it is negotiable.

Interested candidates should send their cv via email to the project leader Jacek Radwan (jradwan@amu.edu.pl), who will provide further information about the project and application procedure. Please apply before 30 November 2020.

Brief summary of the project: Hosts are under evolutionary pressure to be able to fight infections, whereas infectious organisms are under selection to evade host immune system. This paradigm predicts co-evolution of host immune systems and their targets in pathogens, with both parties in a need for continuous adaptation in order to keep up with the opponent - a dynamics described as a Red Queen process. Such co-evolution may have important consequences for several crucial

evolutionary processes the maintenance of sex, sexual selection, speciation and evolution of virulence. Yet, demonstrating that co-evolution is actually occurring requires knowledge of interacting genes in both hosts and parasites. This condition is fulfilled for Lyme-disease agent, the spirochete *Borrelia* and its mammalian hosts. The project will test predictions of Red Queen hypothesis, and will investigate its consequences for speciation and epidemiology.

Prof. Jacek Radwan Faculty of Biology
Adam Mickiewicz University ul. Uniwersytetu
Poznańskiego 6 61-614 Poznań tel. 61 829
5853 <http://evobio.home.amu.edu.pl/> email:
jacek.radwan@amu.edu.pl

Jacek Radwan <jacek.radwan@amu.edu.pl>

AMUPoznan QMULondon UEssex ExperimentalEvolution

Postdoc: AMUPoznan QMULondon UEssex Experimental Evolution

Post-doc position in evolutionary biology is available for three years, preferably starting February/March 2022 but subject to negotiations, in a project "Sex, aggression and ecology - how sexual selection alters population dynamics?". This collaborative project is led by Jacek Radwan (Adam Mickiewicz University, Poznan), Rob Knell (Queen Mary University, London) and Tom Cameron (University of Essex), and is funded by Polish National Science Centre (NCN).

Project summary: In recent years an increasing awareness that sexual selection may play a crucial role in larger scale processes such as adaptation to altered environments and population persistence has developed, but empirical support for this role is extremely inconsistent. The aim of the proposed project is to resolve this inconsistencies by using a combination of simulation modelling and laboratory experiments. Laboratory experiments investigate the effects of sexual selection on a variety of ecologically important variables and on population dynamic behaviour. We will use an experimental system that is uniquely suited for this purpose, the soil mite *Sancassania berlesei*, which can be readily cultured and manipulated in the lab and is male-dimorphic with respect to sexually selected weapon. The proportion of armoured, aggressive males in the population can be easily manipulated experimentally, which allows varying

the strength of sexual selection. We will test whether (i) sexual selection interacts with population size in determining population dynamics and persistence in face of environmental population and (ii) whether sexual selection affect carrying capacity and if it interacts in this respect with environmental complexity. Theoretical work will examine how the effects of different mating systems impact on the overall effects of strong sexual selection, and will explore the ecological effects of sexual selection in a wide range of scenarios.

The post-doc will be will be responsible for the experimental evolution part, but will also contribute to model development. The candidate should hold PhD degree in biological sciences and should have significant achievements in evolutionary biology or ecology as documented by publications in international scientific journals. S/he should be able to work well as part of a team, have good planning, analytical, statistical and writing skills. and should be ready to work hard in the field..

Interested candidates should send their CVs via email to the project leader (jradwan@amu.edu.pl), who will provide further information about the project and application procedure.

Prof. Jacek Radwan Evolutionary Biology Group Adam Mickiewicz University ul. Uniwersytetu Poznańskiego 6 61-614 Poznań <http://evobio.home.amu.edu.pl/> Jacek Radwan <jacek.radwan@amu.edu.pl>

AuburnU LizardEvolution

Postdoctoral Position in evolutionary ecology of plasticity in lizards

The Warner Lab at Auburn University invites applications for an enthusiastic, creative postdoctoral scientist to join our lab team on an NSF CAREER-funded project to test hypotheses related to how organisms deal with environmental heterogeneity across different life stages. A primary goal of this research is to quantify the adaptive significance of offspring responses to developmental environments (during embryo and post-hatching stages) in brown anole lizards (*Anolis sagrei*). This work will involve intensive field and laboratory work. The postdoc will also assist with an outreach program designed to train middle school teachers how to implement ecology-based research projects in their classroom (Student-Teacher Education in Ecological Research program, or STEER). The postdoc will also be expected to assist with mentoring undergraduates,

training graduate students, develop synergistic projects, write grants, and produce first authored papers and contribute to co-authored papers. There will also be opportunities to develop independent and collaborative research, with the hope that the postdoc will develop their own research program to carry to a future faculty position.

Required criteria:

- Candidates must have a track record of addressing scientific problems in an innovative, thoughtful, and systematic manner
- Candidates must possess excellent written and interpersonal communication skills
- Candidates must have a strong publication record

Candidates must have a PhD in an appropriate field (including but not limited to evolution, ecology, physiology, behavior) at time of employment

The ideal candidate would: 1) have expertise and skills with experimental design and statistical analyses (mainly linear models); 2) be capable of working long hours in the field in hot and humid environments; 3) have experience working with reptiles (lizards in particular); 4) ability to work in a dynamic, collaborative environment with graduate and undergraduate students; 5) have excellent communication, organizational, and leadership skills.

The position is available for a minimum of one year as a full-time 12-month appointment, with renewal possible based on performance, need, and/or funding for a maximum of four years. This is a non-tenure track position. Salary will be commensurate with education and experience. To apply, upload a curriculum vitae, statement of research interests (with some description of how their interests fit into research in the Warner lab), statement of contributions to diversity and inclusion, and contact information for three professional references. Applicants must submit their materials online at: <https://www.auemployment.com/postings/23767>. Click here for more information about Auburn's Mission, Vision and IED statements: <https://www.auburn.edu/cosam/about/mission-vision-oied.htm>, For more information about the Warner Lab, visit <http://warnerlab.weebly.com/> For more information about the outreach program, visit <https://ecosteer.weebly.com/> For more information about the Department of Biological Sciences, visit <http://www.auburn.edu/cosam/departments/biology/> Candidates must have a PhD in their respective field by the time the appointment begins. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin and continue working legally for the proposed term of employment; and must possess excellent written

and interpersonal communication skills.

Review of applications will begin January 15, 2022 and will continue until a suitable individual is hired. Ideally, the position will start in March 2022, but the specific start date is flexible.

Questions about the position can be directed to Dr. Dan Warner (daw0036@auburn.edu)

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Daniel Warner <daw0036@auburn.edu>

Barcelona Phylogenetics

The Centre de Recerca Matemàtica (CRM) in Barcelona offers 2 senior and 2 junior postdoctoral positions funded by the Maria de Maeztu Unit of Excellence Award (2020). Deadline: January 31, 2022, check the conditions at <https://www.crm.cat/crm-calls-for-proposals/> - 2 senior and 2 junior in the area of Applied Mathematics, which include applications to Mathematical Biology, Neuroscience and Climate Science. Please contact me at marta.casanellas@upc.edu if you are interested in applying for mathematical biology, for working in algebraic methods in phylogenetics.

Sincerely,

Marta Casanellas

Marta Casanellas <marta.casanellas@upc.edu> Marta Casanellas <marta.casanellas@upc.edu>

Bolzano Italy InsectSymbiontGenomics

A Postdoctoral position is offered at the Free University of Bozen-Bolzano (Italy) in the lab of Hannes Schuler. The successful applicant will be involved in different ongoing projects in the research group focusing on symbionts of psyllids, *Rhagoletis* fruit flies and bark beetles.

The position is funded for one year renewable for nine months.

We are currently studying phytoplasma transmission pathways in different insect vectors using a population genetic approach. By sequencing the genomes of the vector, its symbiont and the phytoplasma we aim to study factors influencing the transmission of phytoplasma on a genome level. Moreover, we are investigating the dynamics of *Wolbachia* in invasive *Rhagoletis* fruit flies in Europe through a population genomic approach. Finally, we are studying the associations of European spruce bark beetle with symbiotic bacteria and fungi to obtain a more holistic understanding of the biology, ecology, and harmful potential of this important pest species.

The Free University of Bozen-Bolzano is located in one of the most fascinating European regions, at the crossroads between the German-speaking and Italian cultures. Its trilingualism in teaching and research, its high level of internationalisation as well as an ideal study environment guaranteed by its excellent facilities are some of the reasons why unibz regularly reaches top positions in national and international rankings. The Schuler lab is member of the newly funded Competence Centre for Plant Health, a joint institution which consists of several research groups in the field of Biology, Agricultural Sciences and Engineering. <https://www.unibz.it/en/home/research/competence-center-plant-health/> We are a young and dynamic research group studying various aspects of insect-microbe interactions in a collaborative atmosphere <http://hschuler.people.unibz.it> We are looking for an enthusiastic candidate with a strong background in insect ecology and evolution. Competences with molecular genetic methods, next generation sequencing and bioinformatics as well as experience with ecological studies, collection and handling of insects are desired.

General requirements for the position: PhD degree in Agricultural Sciences, Agricultural Biotechnology, Ecology and Evolution with a multidisciplinary profile. The candidate should have excellent communication skills and should be fluent in English.

The project is expected to start in March 2022, but the starting date is negotiable.

Application deadline is 11.01.2022

For informal inquiries, and for questions about the hiring process, please contact Hannes Schuler hannes.schuler@unibz.it All documents for the application procedure can be found here: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/5605-general-and-applied-entomology->

dr-schuler?group= Prof. Hannes Schuler Competence Centre for Plant Health Faculty of Science and Technology Free University of Bozen-Bolzano University $\frac{1}{2}$ tsplatz 5 I-39100 Bozen-Bolzano Tel: +39 0471 017648 <http://hschuler.people.unibz.it> Schuler Hannes <Hannes.Schuler@unibz.it>

Cambridge PDF PhD CancerEvolutionInDogsAndDevils

The Transmissible Cancer Group at the University of Cambridge, Department of Veterinary Medicine, is seeking to appoint a Research Assistant or Postdoctoral Research Associate to join a dynamic team studying the evolution and host interactions of transmissible cancers in dogs and Tasmanian devils. This is a fixed-term 3-year position supported by a Wellcome research grant. This post is expected to start on 1st May 2022 but there is some flexibility for an earlier or later start date.

Transmissible cancers are long-lived clonal lineages of malignant cells that operate as infectious parasites, spreading between individuals by the physical transfer of living cancer cells. Among mammals, such diseases have been described in only two species: dogs and Tasmanian devils, and are spread by mating and biting, respectively. These extraordinary cell lineages provide an opportunity to study cancer evolution over the long-term, and to investigate the interaction between cancer cells and the allogeneic immune system. Furthering our knowledge of these diseases may also shed light on their transmission dynamics and inform conservation work.

This position is suited for someone with skills in computational biology and an interest in cancer evolution and tumour immunology. The role-holder will analyse genome, transcriptome and single-cell RNA sequencing (scRNAseq) data from tumours belonging to transmissible cancer lineages. We will annotate genetic variants and use these to understand past and ongoing mutational and evolutionary processes, including the impact of mutation on gene expression and tumour phenotypes. Using scRNAseq data, we will seek to understand the contribution of host cells to the tumour microenvironment. By integrating data from hundreds of tumours, our goal will be to understand how cancers exploit a transmissible niche, and how the interaction between cancer and immune system controls disease outcome.

Applicants should hold a Master's degree (Research Assistant) or PhD (Postdoctoral Research Associate) in

computational biology or a related discipline, and experience in genome analysis is preferable. The candidate must value teamwork and collaboration, have good organisational and interpersonal skills, and should be able to effectively manage their time. They will have the opportunity to make their own original contribution to the field of study within the framework of the project. If applying at the Research Assistant level it may be possible for the role-holder to register as a PhD student.

More information about the Transmissible Cancer Group can be found on our website at www.tcg.vet.cam.ac.uk, and information about the Department of Veterinary Medicine can be found at www.vet.cam.ac.uk. Informal enquiries should be directed to Prof Elizabeth Murchison (epm27@cam.ac.uk), and enquiries about the application process should be directed to Deborah Collett (dc748@cam.ac.uk). Further particulars for the role can be accessed at www.vet.cam.ac.uk. Applicants should submit a CHRIS/6, CV, covering letter outlining suitability for the role and contact details for two referees. Please note that shortlisted candidates will be expected to make a presentation at interview. More information: <https://www.jobs.cam.ac.uk/job/32669/> Please ensure that you upload your Curriculum Vitae (CV) and a covering letter in the Upload section of the online application. Any additional documents, which have not been requested, will not be considered as part of your application.

Closing date 25th February 2022 Interviews will be held on 16th March 2022

Click the 'Apply' button below to register an account with our recruitment system (if you have not already) and apply online.

Please quote reference PP29280 on your application and in any correspondence about this vacancy.

The University actively supports equality, diversity and inclusion and encourages applications from all sections of society.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Elizabeth Murchison <epm27@cam.ac.uk>

CharlesU Prague PopGenomicsPolyploidy

***ERC-funded postdoctoral position in population genomics of whole genome duplication

Group of Ecological Genomics (Filip Kolář) Department of Botany, Charles University, Prague, Czech Republic <https://botany.natur.cuni.cz/ecolgen> We seek a highly motivated, independent early career researcher interested in leading a research program within the context of an ERC-funded project focused on the evolutionary consequences of whole genome duplication addressed using available population genomic data of multiple plant species (for details see below). The successful candidate will join the team of Ecological Genomics at Charles University in Prague (Czech Republic, EU), lead by Filip Kolář (<https://botany.natur.cuni.cz/ecolgen>) and will work in close collaboration with our partner labs focused on evolutionary genomics lead by Tanja Slotte (Stockholm University, Sweden) and Levi Yant (University of Nottingham, UK). The start date is negotiable, from early 2022.

**Requirements - keen interest in leading an independent research program within a highly collaborative research group - experience in handling large scale high-throughput sequence data - a strong background in structural, statistical, and/or population genomics - PhD in evolutionary biology, genetics, bioinformatics, or related fields (previous experience in leading an independent postdoctoral project is advantageous, but not required)

**We offer - competitive monthly salary of 2,400 EUR (note that average monthly gross salary in the Czech Republic was ~1,500 EUR in mid-2021 and living expenses are generally lower in CZ than in western Europe) - work in a young, dynamic and international environment, situated in an inspiring city centre - involvement in international collaboration including stays in collaborating labs

**Optional - further possibilities for strengthening academic career - take part in teaching relevant courses - supervision of master project(s) in the Bioinformatics or Evolutionary Biology program - participate in fieldwork in Europe or North America - opportunity to develop independent research follow-up project - support for seeking additional self-funded projects in national (des-

ignated Junior Researcher projects within The Czech Science Foundation) and international funding schemes (e.g. Marie Curie, EMBO fellowship)

****Project details** Whole genome duplication (WGD, polyploidization) is a dramatic genome-wide mutation whose ubiquity across eukaryotes suggests an adaptive benefit, although the underlying mechanism remains unknown. In the project, the successful applicant will test the hypothesis that WGD promotes accumulation of potentially beneficial variation in general and when facing novel environmental challenges in particular. The project will build on our research in *Arabidopsis arenosa* that demonstrated increased potential of its natural polyploid populations to accumulate adaptive variation (see doi: 10.1038/s41559-019-0807-4, *Nature Eco & Evo.*; doi: 10.1073/pnas.2022713118 *PNAS* and doi: 10.1038/s41467-021-25256-5 *Nature Comms.*). The candidate will extend well-beyond this system to additional mixed-ploidy species to discern the generality in how selection affects polyploid genomes. The core of the analysis will involve available population-level short-read data of ten plant species; long-read data for several species are also available for validation. For overall info on the Starting ERC project see <https://botany.natur.cuni.cz/-ecolgen/node/48>. Please send your CV, contact details for two referees and a half-page motivation letter in a single pdf file to Filip. Review of the applications will begin on Dec 10th 2021 and will continue until the position has been filled.

Filip Kolář < filip.kolar@natur.cuni.cz >

Filip Kolar < filip.kolar@gmail.com >

CIBIO Portugal Evolutionary Biology

Postdoc Researcher position

Main research field: Biological Sciences (Evolutionary Biology)

Postdoc Researcher position (Reference BIOPOLIS 2021-20) is available at CIBIO-InBIO, through BIOPOLIS, funded by the project “The Genetic, Cellular, and Photonic Mechanisms of Avian Structural Colouration (reference 101000504)”, in the context of a European Research Council Consolidator Grant and supported by European funds.

This project seeks to decipher the genetic and cellular basis of structural colours in birds. The project uses

an innovative approach that merges techniques and expertise in the fields of genetics and genomics, cell and molecular biology, and photonics.

The successful candidate will work collaboratively with members of the Evolutionary Genetics and Genomic group (EVOLGEN) at CIBIO and directly with the group leader Miguel Carneiro (<https://scholar.google.pt/citations?user=-onCfzJ4AAAAAJ&hl=pt-PT>). Questions can be directed to Miguel Carneiro (miguel.carneiro@cibio.up.pt). The successful candidate will carry out research activities under a work contract for a non-fixed term.

Application deadline: January 05, 2022

For more information: <https://www.cibio.pt/?p=1866>
Communication, Advancement and Engagement Unit (CA&EU)

BIOPOLIS

CIBIO - Research Center in Biodiversity and Genetic Resources InBIO Associate Laboratory University of Porto

CIBIO-InBIO Divulgação

Czech Academy Willow Phylogenetics

Post-Doc in Phylogenomics

Disentangling the Phylogeny and Evolution of the Willow Family

We are looking for an enthusiastic postdoctoral researcher (max. seven years after obtaining a PhD degree) experienced in bioinformatics and phylogenomics to join our projects exploring plant-herbivore interactions and the evolution of host-plant defences in the willow family (Salicaceae). Using a series of complementary approaches, we aim to show how plant chemical diversity arises through biotic and abiotic pressures. Our studies combine field components, manipulative green-house experiments with metabolomics and phylogenomics. You will use a pipeline that our group developed to infer the phylogeny of several temperate and tropical Salicaceae genera using WGS data. We would like you to have an excellent background in bioinformatics and programming.

You will join the Laboratory of Evolutionary Ecology led by Dr Martin Volf at the Institute of Entomology, Biology Center of the Czech Academy of Sciences in Ceske

Budejovice (Czech Republic). The project offers an opportunity to conduct laboratory work in the Czech Republic and abroad within a collaborative network of our colleagues from Europe and overseas. The Department of Ecology, where our laboratory is based, is a diverse, international team (11 nationalities) studying ecology, evolution and biogeography, and a world-class centre for interaction network research with regular publications in leading journals. The Laboratory of Evolutionary Ecology is a new perspective team successful in fundraising and with a good publication record.

Requirements:

- Have you obtained a PhD degree? - Do you have advanced skills in bioinformatics (polyploid and diploid genome assembly, RAD-locus contig assembly), phylogenomics, and programming (R, Python, bash)? - Are you deeply interested in the ecology of insects or plants?
- Are you fluent in spoken and written English? - Can you work independently? - Do you have international experience (at least two years spent outside the Czech Republic within the last three years)?

Great, we are looking for you!

Benefits:

- 1 extra week of holiday, i.e. 5 weeks of paid holiday per year in total - Subsidized lunches in our canteen - Benefits from Social fund - Working in a stable, prestigious research institution of international importance - Friendly international working environment - Support of leisure time activities - Free language classes - Czech for foreigners, English for Czechs (the capacity is limited) - Opportunity to take part in mentoring programmes as a mentor or a mentee - Concessionary mobile tariff at the contractual operator - Concessionary banking services at the contractual bank

Other comments:

PLACE AND BACKGROUND History wherever you turn and excellent beer. That is Āeské BudĀ (2 hours away from Prague). A city with over 750 years of tradition, the breathtaking countryside around, and a growing international expert community at the Biology Centre CAS and the University of South Bohemia. Check out our Guide for Expatsto read about life in the city and the Czech Republic. Czech and English are being used on equal rights as working languages of ISB, so applicants from abroad are most welcome.

SELECTION PROCEDURE The Biology Centre of the Czech Academy of Sciences holds the HR Excellence in Research Award. Our selection process is transparent, open, non-discriminating, and fair. For more information about the researchers' recruitment policy at our

institution, seeOTM-R.

ARE YOU INTERESTED? Send us the following documents via email (volff@entu.cas.cz) by31 December 2021.

- CV including your publication record, contact details for three references, - Copy of your PhD diploma - cover letter stating qualifications, previous work and motivation

Workplace: Institute of Entomology

Employment relationship: Employment contract

Job type: Researcher

Duration: Fixed-term

Job status: Full-time

Job starting date: 1. 3. 2022

Application deadline: 31. 12. 2021

If you have any queries, you may contact Dr Martin Volf via email (volff@entu.cas.cz).

For more details see: <https://jobs.bc.cas.cz/en/detail/-87> External links:

Laboratory of Evolutionary Ecology- <https://www.entu.cas.cz/en/departments/department-of-ecology-and-conservation-biology/laboratory-of-evolutionary-ecology/> Institute of Entomology - <https://www.entu.cas.cz/en/homepage/> Guide for Expats - <https://www.bc.cas.cz/en/employees/#anchor> OTM-R - <https://www.bc.cas.cz/en/employees/-candidates/otm-r/>

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Czechia ComputationalMolecularBiology

Postdoc in computational or molecular genetics

Algal evolution and ecology group (<https://www.alga.cz/c-873-skupina-jana-janouskovce.html>) at Centre Algatech, Institute of Microbiology, Czech Republic is seeking a postdoctoral researcher in Computational or Molecular genetics. The group, led by Jan JanouĀ¹kovec and Eva HorĀkovĀ, is under the umbrella of Laboratory of Photosynthesis. We study the

evolution, ecology, and molecular biology of algae, protists and cyanobacteria (e.g., Janouskovec et al., 2017, PNAS 114(2); Janouskovec et al., 2017 Curr Biol 27(23); Janouskovec et al., 2019, eLife 8, e49662). Located in a picturesque historic building in the middle of a UNESCO Biospheric Reserve and regional tourist hotspot, Centre Algatech hosts several internationally recognized groups in microbial research. With a high proportion of foreign researchers and a friendly, collegial atmosphere, Centre Algatech is driven by research excellence and currently hosts several major funding awards (ERC, EXPRO). The working language is English. We have outstanding facilities for modern biological research and strong ties with the Biology Center and University of South Bohemia in Aeské BudÁ, the nearby regional capital.

We seek candidates with a strong background in computational or molecular biology to contribute to ongoing projects focused on single-cell sequencing, genome-to-function prediction, and gene characterization. We require a PhD degree in Computational or Molecular biology (or are about to finish one soon), first-author publications in well established journals, independent thinking, and strong communication skills. A candidate with a computational background will have experience developing computational pipelines, big data analysis, and Shell, Python/Perl, R, or other programming languages; experience with the preparation of sequencing libraries pipelines is a strength. A candidate with a molecular background will have strong experience in genetic transformation, gene cloning and expression analysis; experience with bioinformatics or metabolomics will be considered a strength.

We offer the candidates individual solid mentorship and opportunities to network, instruct PhD and MSc students and participate in international meetings. The projects involve collaboration with the University of Cambridge (UK), University of Southampton (UK), Alfred Wegener Institute (Germany) and ICM Barcelona (Spain). The institute will offer a postdoctoral contract based on standard Czech academic pay grades, considering the amount of previous experience. The contract includes full health and dental insurance paid by the employer and is topped with generous benefits, including lunch vouchers, sport activity vouchers, and a paid vacation of 30 days per year. The contract will be for 3 years, including an initial probation period of 3 months. The preferred start date is in the spring of 2022. Applications will be reviewed on a rolling basis and we encourage early applications. All applications received by March 31, 2022 will be reviewed. We welcome applicants from all minority backgrounds.

To apply: Please send a SINGLE PDF document

in English containing the following information in the specified order to the assistant Lucie Fraitova: fraitova@alga.cz - Motivation letter detailing your fit for the position (1 page max. total) - Curriculum Vitae including a complete list of peer-reviewed publications (3 pages max. total) - Contact information for 2 academic referees (do not include letters with the application)

For further information about the position please contact: Jan Janouskovec: janouskovec@alga.cz Centre Algatech, Institute of Microbiology, Trebon, Czech Republic

Jan JanouÅ¹kovec <janjan.cz@gmail.com>

EPFL Lausanne Modeling Microbial Evolution

Dear colleagues,

I am pleased to announce an opening for a postdoctoral researcher on “Modeling evolution of bacteria in the gut” in my group at EPFL (Ecole Polytechnique Federale de Lausanne, Switzerland). This project will be conducted in close collaboration with Dr. Claude Loverdo (CNRS-Sorbonne Universite, Paris, France).

To apply, please send a cover letter, detailed resume and copies of transcripts and certificates to anne-florence.bitbol@epfl.ch *by December 10*.

The position will be initially for 1 year, with the possibility of renewal. The ideal start date is early 2022. More information at <https://recruiting.epfl.ch/Vacancies-2090/Description/2> Best regards, Anne-Florence Bitbol

Anne-Florence Bitbol <anne-florence.bitbol@epfl.ch>

FreiburgU Tree Epigenetic Diversity

The Department of Ecology and Geobotany is currently accepting applications for a

Postdoc (m/w/d)

The position is offered for a period of 2 years, if no former times of qualification must be considered. The starting date is February 1st, 2022. The position is full time (100 % of regular working hours) with salary and

benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 13, 100 %). The recruitment is subject to the final approval of the project. An extension by one year in the Forest Genetics— working group at the Albert-Ludwigs-Universität Freiburg is planned.

Project description | The position is embedded in the BMBF funded project “EpiSoma - Sources and consequences of somatic epigenetic diversity in trees”. The successful applicant will investigate whether microclimatic differences within beech (*Fagus sylvatica*) crowns create characteristic patterns of methylation differences and whether these differences are faithfully inherited to offspring. For this purpose, the postdoc will analyze whole genome bisulfite sequencing data, install sensors in tree crowns, carry out cross-pollination between sun and shade-exposed branches and conduct stress experiments with the resulting seedlings. The field and experimental work will be carried out at the Philipps Universität Marburg and the Marburg Open Forest in the working group of Prof. Dr. Lars Opgenoorth. For data analyses, the postdoctoral researcher will obtain another contract of one-year duration at the Albert-Ludwigs-Universität Freiburg in the Forest Genetics working group of Prof. Dr. Katrin Heer. The whole project will be carried out in close collaboration of these two working groups, and with Prof. Dr. Frank Johannes and Prof. Dr. Hans Pretzsch (TUM).

Your profile | You have an MSc and Ph.D. in biology, plant ecology, bioinformatics, or similar fields with excellent results. You enjoy science and are driven by curiosity. You have field work experience including tree climbing or bring the willingness and physical capability to learn tree climbing. Research experience in forest ecology, tree physiology, genetics or genomics and explicitly, with the bioinformatic analysis of WGBS is advantageous. We expect very good knowledge in data handling and statistical data analysis (in R and Unix environment) as well as a very good publications record. Experience with laboratory work (DNA extraction and library preparation) is advantageous. You have good communication and team skills, and a meticulous way of working.

Your application | Your application will consist of a motivation letter, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references. Please submit your application as a single pdf document. For further information, please contact Prof. Dr. Lars Opgenoorth (+49 6421 2823374 or opgenoorth@uni-marburg.de) and Prof. Dr. Katrin Heer (+49 761 203-3647 or katrin.heer@forgen.uni-freiburg.de).

Please send your application mentioning registration number fb17-0033-wmz-2021 as a single PDF file to opgenoorth@uni-marburg.de before January, 14th, 2022.

The official announcement can be found here:

<https://www.uni-marburg.de/de/universitaet/-administration/verwaltung/dezernat2/-personalabteilung/bewerber/stellen/wissenschaftliche-stellen/fb17-0033-wmz-140122-englisch.pdf> Legal terms

| The position will be filled by a temporary contract that is limited to the project period. The limitation of the contract complies to § 2 Abs. 2 WissZeitVG. We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. Applicants with children are welcome - Philipps-University is certified as a family-friendly university. Sharing a full-time position (§ 8 Abs. 2 S. 1 HGIG) as well as a reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs cannot be refunded.

Katrin Heer <katrin.heer@forgen.uni-freiburg.de>

Krakow environmentalDNA

Polish Academy of Sciences INC Krakow Poland.PlasticityTranscriptomics

Postdoc position in the project “The ecology of ponds in the context of human activity and geography - environmental DNA and beyond (ECOPOND)” at the Polish Academy of Sciences INC in Krakow, Poland in collaboration with the Jagiellonian U, U of Lodz, Norwegian Institute for Nature Research and Norwegian Veterinary Institute.

The aim of the WP5 of the project: “Integrating effects of anthropogenic and natural stressors: phenotypic and genetic expression approach”, is to understand how anthropogenic and natural stressors: urbanization, native and invasive alien predators, and latitudinal gradient affect traits linked to fitness down to gene expression level in a common bluetail damselfly.

Requirements: - PhD in biology, ecology or related field (PhD defence not earlier than 7 years before the year of employment in the project) - An experience in using molecular methods to address ecological or evolutionary questions, with an appropriate publication track record

- Good working knowledge of R environment, including skills in statistical modelling
- Working knowledge of standard bioinformatics tools in the Linux environment
- Publication record including articles in leading ecological and evolutionary journals
- Fluency in English, written and spoken
- Valid driving license
- Involvement in work during irregular working hours (as field work and lab experiment require)
- Experience in field and laboratory work on aquatic/semi-aquatic vertebrates and/or invertebrates (preferably amphibians) would be an asset
- Experience in working in an international team would be an asset

I have funding from Norway grants under the Norwegian Financial Mechanism 2014-2021. Contract of employment: full time for up to 18 months, the contract is renewed each year Starting date of employment: 1 February 2022 Salary: monthly gross salary 8 300 PLN (average wage in Poland: +/- 5 700 PLN gross)

Principal investigator: Dr hab. inÂż. Szymon Ńniegula, http://www.iop.krakow.pl/-pracownicy,102,szymon_sniegula.html Feel free to contact me at ecopond@iop.krakow.pl

The posting is here https://files.iop.krakow.pl/-Ecopond_Info/JSZ%20call.2021.EN.3.pdf Szymon Sniegula <szymon.sniegula@gmail.com>

Krakow EvolutionaryEcology

Institute of Nature Conservation PAS Krakow Poland.PlasticityTranscriptomics

Postdoc position in the project “The ecology of ponds in the context of human activity and geography - environmental DNA and beyond (ECOPOND)” at the Institute of Nature Conservation PAS, Krakow, Poland in collaboration with the Jagiellonian U, U of Lodz, Norwegian Institute for Nature Research and Norwegian Veterinary Institute.

The aim of the WP5 of the project: “Integrating effects of anthropogenic and natural stressors: phenotypic and genetic expression approach”, is to understand how anthropogenic and natural stressors: urbanization, native and invasive alien predators, and latitudinal gradient affect traits linked to fitness down to gene expression level in a common bluetail damselfly.

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Salary: monthly gross salary 8 300 PLN (average wage in Poland: +/- 5 700 PLN gross)

Principal investigator: Dr hab. inÂż. Szymon Ńniegula, http://www.iop.krakow.pl/-pracownicy,102,szymon_sniegula.html Feel free to contact me at ecopond@iop.krakow.pl

The posting is here https://files.iop.krakow.pl/-Ecopond_Info/JSZ%20call.2021.EN.3.pdf Szymon Sniegula <szymon.sniegula@gmail.com>

Lausanne AdaptiveEvolution

2 postdoctoral position Lausanne: Theory in behavior, life-history, and adaptive evolution

Two postdoctoral positions for 1 up to 5 years in behavior, life-history and human evolution are open in the research group of Laurent Lehmann at the Department of Ecology and Evolution of the University of Lau-

sanne (<https://www.unil.ch/dee/en/home/menuguid/-people/group-leaders/prof-laurent-lehmann.html>).

We study adaptive evolution from a mathematical and computational point of view with an attempt to shed light on the following type of related questions:

How do decision-making systems evolve? Should behavior be genetically driven, acquired by social learning, or is free choice of action favored by selection and what are then individual preferences? How did the human life-history evolve? What is the role of cumulative culture and intergenerational transfers in shaping life-history schedules? How can large-scale stratified societies emerge from small-scale egalitarian ones? Is this the result of an increase in the technologies of production and exchange (invention of agriculture and trading) or in the technology of appropriation (intensification of warfare)?

All these questions pertain to formalizing evolutionary dynamics in structured populations under the action and interaction of different processes often occurring at different time scales and thus connect broadly to several open theoretical questions at that heart of ecology and evolution.

Applicants with a strong interest in these research questions and/or adaptive dynamics in general are encouraged to apply. Applicants should have a Ph.D. in a relevant area (e.g. evolutionary biology, economics, anthropology, physics, mathematics), with strong mathematical and/or computing skills, and a vivid interest in fundamental research. Having a good knowledge of stochastic process theory and/or optimal control theory is an asset.

Inquiries and applications should be sent first to laurent.lehmann@unil.ch and then to receive full consideration must eventually also be uploaded online through the University of Lausanne recruitment platform: <https://bit.ly/3IdTno3> where more administrative details on the positions can be found. Applications should include a CV, a statement of research interests explaining why you replied to this job offer, and contact details of 2 referees.

Starting date is negotiable, from April 2022 onwards.

Laurent Lehmann <laurent.lehmann@unil.ch>

LMU Munich

Adaptive Divergence In Fission Yeast

Post-doc position on adaptive divergence in fission yeast at LMU Munich

A 2-year postdoc position in experimental evolution is available in the research group of Jochen Wolf at LMU Munich, Germany.

BACKGROUND Adaptive divergence is key to the formation of new species by means of natural selection. Under geographical isolation, adaptive divergence readily results as a by-product of ecological specialization. Under conditions of gene flow, however, the situation is less clear. Gene flow might break up beneficial gene combinations and promote generalist phenotypes, but on the other hand can introduce novel variation that facilitate adaptation. Due to the complex interactions between local adaptation, life history trade-offs, and genetic interactions, determining the mechanisms leading to divergence in natural systems is challenging. Controlled, replicated evolution experiments are a promising way to generate insight on the genetic basis of adaptive divergence in the context of gene flow.

THE PROJECT We have been running an experimental evolution study for ~seven years using the haploid fission yeast *Schizosaccharomyces pombe* (1). In this experiment, we vary the amount of migration while applying disruptive selection. The first analyses of the 132 replicate populations after 53 asexual generations showed divergence to be strongest in allopatry as would be expected. Yet, divergent ecological adaptation arose also with the highest level of gene-flow (2). The stored longitudinal collection of population samples (currently at sexual generation ~200), which can be revived any time, is a great resource and fun playground for any evolutionary geneticist. Questions to address include the genetic basis of evolutionary parallelism, the evolution of reproductive isolation (incl. reinforcement), evolution of trade-offs, the effect of genetic constraints on evolvability, etc.

QUALIFICATIONS The successful applicant holds a PhD degree and has experience in microbiological lab work, ideally with specialization in yeast-genetics. A solid background in population genetics, experimental evolution, quantitative genetics and/or statistical modelling (e.g. linear mixed models) is a clear asset. Re-

search environment The Wolf lab applies an integrative approach to explore micro-evolutionary processes and genetic mechanisms underlying species divergence, adaptation and genome evolution (3, 4). Using large-scale genomic approaches combined with field and lab-based experiments, we characterize genetic diversity within and between populations (5) and assess its relationship to phenotypic divergence (6-8). This project falls square into the main interests of the lab and will be performed in close collaboration with the Nieuwenhuis lab. The Nieuwenhuis lab uses fission yeast to study the evolution of divergence at sexual reproduction, and its consequences for the genetic architecture, studying mating-type evolution and associated suppression of recombination. More information on the research activities in the respective labs can be found at

http://www.evol.bio.lmu.de/research/j_wolf/-index.html <https://www.evol.bio.lmu.de/research/nieuwenhuis/index.html> The University of Munich is consistently ranked among the top Universities worldwide, in particular the life science branch with its newly inaugurated campus offering excellent technical facilities and many interaction possibilities including the gene center, several Max-Planck-Institutes and the Helmholtz Centre (<http://www.campusmartinsried.de/en/336-2/-#>). With the highest concentration of supercomputing in Germany the Leibniz Supercomputing Centre and its local partners provide access to state-of-the-art computing facilities (<https://www.lrz.de/english/>). Munich, Bavaria's capital, is a vibrant, yet relaxed city with many traditions still alive, a high quality of living and the Alps nearby.

HOW TO APPLY Applications including a CV, a statement of motivation and the contact details of at least two references in a single .pdf should be sent to evolution@bio.lmu.de. Please use 'experimental postdoc position' as subject header. The position remains open until filled. Starting date as soon as possible, since disposition of funding terminates by the end of 2023. The current funding situation for basic research in Germany is good, such that realistic funding options, which we successfully exploited before, exist to secure additional funding beyond the duration of the current funding period.

BIBLIOGRAPHY 1. B. P. S. Nieuwenhuis et al., *Nat. Commun.* 9, 1639 (2018). 2. S. Tusso, B. P. S. Nieuwenhuis, B. Weissensteiner, S. Immler, J. B. W. Wolf, *Nat. Ecol. Evol.* 5, 338-349 (2021).

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mcmaster.ca/~brian/evoldir.html

LundU Sweden EvolutionaryBiology

Postdoc in Evolutionary Biology: plant adaptation to novel pollinators

Lund University, Sweden

The 'Evolutionary Ecology of Plant-Insect Interactions' research group is recruiting a fully-funded postdoctoral researcher (2 years) to work on questions related to plant adaptation to novel pollinator assemblages. The project is led by Dr. Øystein Opedal and will combine existing original data and databases with new field and greenhouse data to better understand the factors affecting evolutionary potential and constraint in plant evolution, with focus on traits functionally involved in plant-insect interactions. The successful applicant will be encouraged to help develop the project in new directions in collaboration with the project team, and the exact project plan will be adjusted based on the background and interest of the applicant. The starting date is negotiable.

Application deadline: 15. January 2022

Questions are welcome to oystein.opedal@biol.lu.se

Further information and info on how to apply is available at <https://lu.varbi.com/de/-what:job/jobID:449723/?lang=en> Øystein Opedal <oystein.opedal@biol.lu.se> Øystein Opedal <oystein.opedal@biol.lu.se>

MaxPlanck Jena EvolEcoBehavior

MaxPlanckJena_EvolEcoBehavior

"Postdoctoral position on brood care in ants Applications are invited for a 3-year postdoctoral position at the Max Planck Institute for Chemical Ecology in Jena, Germany to work in the Social Behavior group headed by Dr. Yuko Ulrich. We are looking for a dynamic, creative, and collaborative postdoctoral scientist to join an interdisciplinary team working at the intersection of behavioral ecology and evolutionary biology. Candidates

with a PhD in chemical ecology, behavioral biology, or related fields are welcome to apply. The group's current work is centered on the drivers and consequences of social behavior. We seek to understand how individual traits and the social context shape behavior using experimental, computational, and molecular approaches in a uniquely accessible social insect, the clonal raider ant. This parthenogenetic species produces genetically identical offspring in discrete cohorts, making it possible to precisely control and replicate the size and composition of colonies in experiments. For more information about our work, please visit www.ulrichlab.com. The project aims to study the fundamentals of a key behavior of social insects, brood care. Clonal raider ant larvae have clear effects on worker behavior and physiology, and the project aims to identify the cues (chemical, behavioral) driving those effects. We are therefore looking for a team member with a strong background in chemical ecology or behavioral biology. Experience working with social insects, designing behavioral assays and analyzing behavior computationally, and/or bioassay-guided fractionation and compound identification are a definite plus. Candidates must have excellent verbal and written communication skills, a publication record, and a track record of addressing scientific questions in an innovative and rigorous manner. Whatever your background, a keen interest in the research topic and a positive mindset are a must. The Max Planck Institute for Chemical Ecology provides a thriving, international, and multidisciplinary research environment. The project will benefit from state-of-the-art facilities and equipment, access to expert service groups for mass spectrometry (with MALDI-MS imaging, untargeted metabolomics, and sensitive targeted metabolite quantification platforms) and NMR, as well as world-class researchers in insect chemical ecology, neuroethology, and evolutionary biology. The working language of the institute is English. For more information, please visit www.ice.mpg.de. We offer a competitive salary, generous holiday entitlement and pension scheme, as well as career development training. The Max Planck Society is committed to equal opportunities and diversity (www.mpg.de/equal_opportunities). We welcome qualified applicants from all backgrounds. To apply, please send your CV, a cover letter (2 pages) stating why you are applying for this position and what your proposed research goals are, along with the names and contacts of 2-3 references as a single PDF to socialbehavior@ice.mpg.de. Review of applications will start on January 3, 2022 and will continue until the position is filled. Preferred starting date is March 2022 but flexible. Informal inquiries about the position can be addressed to Dr. Ulrich (yulrich@ice.mpg.de).

YUKO ULRICH | Lise Meitner Group Leader

Max Planck Institute for Chemical Ecology

www.ulrichlab.com T+49 (0)3641 57 1830 Eyulrich@ice.mpg.de

yuko ulrich <yulrich@ice.mpg.de>

MNHN Paris Phylogenetics

Postdoc: Computational and Machine Learning-based Methods in Phylogenetics

Muséum National d'Histoire Naturelle, Paris - France Olivier Gascuel - olivier.gascuel@mnhn.fr
<https://isyeb.mnhn.fr/fr/annuaire/olivier-gascuel-7496>
<https://emploi.cnrs.fr/Offres/CDD/UMR7205-OLIGAS-002/Default.aspx?lang=EN> 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, statistical significance and uncertainty of evolutionary inferences, fast inference algorithms, large-scale phylogenetics and phylogenomics, phylodynamics, analysis of viral data, biodiversity assessment.

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 * Design and evaluation of branch-support methods for gene trees and species trees * Algorithm design and implementation for large-scale phylogenetics/phylogenomics

The applicants are welcome to propose variants along these lines, for example combining modeling and model selection, or tree inference and branch support.

All info (skills, salary, context, how to apply etc.) is available from: <https://emploi.cnrs.fr/Offres/CDD/UMR7205-OLIGAS-002/Default.aspx?lang=EN> Olivier GASCUEL <olivier.gascuel@mnhn.fr> Olivier GASCUEL <olivier.gascuel@mnhn.fr>

Montpellier CooperationInCrops

Mathematical models of cooperation in crops

A post-doctoral position is available for 12 months (with possible extension) starting next spring in Montpellier (France), as fully described here : <https://bit.ly/3nTN7IJ> (<https://emploi.cnrs.fr/Offres/CDD/UMR5554-FRAROU-005/Default.aspx?lang=EN> for direct access to english version).

This post-doc is part of the ANR-funded SCOOP project (<https://umr-agap.cirad.fr/en/recherche/projets-de-recherche/scoop-cooperation-chez-les-plantes-cultivees>), led by H el ene Fr eville (AGAP, INRAE), which will use a combination of theory and experiments to identify above- and below-ground traits involved in social interactions and their associated cooperative phenotypes in crops (with durum wheat as an experimental model), as well as cooperative alleles. One aim of the project is to provide practical guidelines for breeders and farmers to design selection schemes that promote plant cooperation and optimize crop yield in high-density agrosystems. The post-doc will be supervised by F. Rousset (CNRS, evolution of social behaviour) at the Institut des Sciences de l'Evolution (ISEM), and will benefit from the expertise of different project members, including S Gandon (CNRS, development of kin selection models) and H Fr eville (INRAE, experiments on kin selection in crops).

The post-doc will develop models to assess the ability and efficiency of different selection schemes to select for cooperative phenotypes. Previous work by our group (Montazeaud et al 2020) has investigated this question by considering the evolution of plant height in response to competition for light. This theoretical framework will be extended in two directions: (i) we will consider the coevolution between height and shape. This evolution will be constrained by trade-offs with seed production (in the absence of competition there is an optimal height and shape that maximizes yield) but also by potential correlations between these two traits constraining plant architecture. This model will predict the impact of an increase of crop density on these two traits and on yield. We will manipulate relatedness and the level of selection among groups in order to identify practices that maximize yield; (ii) we will account for the change of architecture during growth, and the ability of plants to adjust their development in response to the development

of their neighbors. Yield will thus depend on the plastic response in height to the social partners, and the plastic response in shape.

References

Reference: Fr eville H, Roumet P, Rode NO, Rocher A, Latreille M, Muller M-H, David J (2019) Preferential helping to relatives: a potential mechanism responsible for lower yield of crop variety mixtures? *Evolutionary Applications* 12, 1837-1849. <https://doi.org/10.1111/eva.12842> . Montazeaud G., Rousset F., Fort F., Violle C., Fr eville H. and Gandon S. Farming plant cooperation in crops. *Proc. R. Soc. B* <http://doi.org/10.1098/rspb.2019.1290> Francois Rousset <francois.rousset@umontpellier.fr>

Montpellier PopulationGenomics

2 years postdoctoral position in population genomics in Montpellier, France

We are looking for a postdoctoral researcher with experience in population genomics to work on an ANR-funded project (ANR PEMILADAPT) addressing the mechanisms of adaptive introgressions in an African crop, the pearl millet (*Penisetum glaucum*). Pearl millet is a major staple crop in Sahelian agriculture and constitutes an asset for future climate-resilient African agriculture. Previous work in the group enlightened the complex history of pearl millet domestication in Western Africa and documented extensive gene flow between wild and cultivated forms (Burgarella et al., 2018). The postdoc will be in charge of population genomics analyses exploring the wild introgression landscape within the cultivated genome. Tasks are expected to include coalescent-based demographic inferences and the characterization of adaptive introgression with machine learning approaches, but the postdoc will be free to investigate its own path of analysis. A dataset of >150 high coverage genomes from African samples are already available.

The position will be based at IRD (French national research institute for sustainable development), in Montpellier, France. The postdoc will closely work with C ecile Berthouly-Salazar (IRD, DIADE/DYNADIV TEAM), Philippe Cubry (IRD, DIADE/DYNADIV TEAM), Miguel de Navascu s (INRAE, CBGP) and Concetta Burgarella (Uppsala University). The successful candidate will have the possibility to spend part of his/her time at Uppsala University (Sweden). Collaborations with other ongoing projects

on adaptive introgression and speciation during domestication will allow the post-doctoral fellow to benefit from a rich collaborative network, as well as a stimulating working environment in Montpellier, a centre of excellence in (agro)biodiversity research.

Applicants should have a PhD or postdoctoral experience in a relevant area (evolutionary biology, population genomics). We will prioritise someone with a vivid interest in evolutionary biology and speciation/adaptation research and with a strong background in population genomics and statistical genetics. Experience in handling genomic data and population genomics methods, as well as skills in bioinformatics and programming, are required. Previous experience with simulation-based methods would be a plus. Good written and verbal communication skills, interpersonal skills, a strong work ethic, and the ability to think creatively and critically are desired. Working language can be either English or French, depending on the candidate preference.

The appointment is for 24 months, with a flexible starting date between March and June 2022. Salary will be about 2200 euros per month after taxation, depending on experience. Health insurance costs for the candidate and his/her family are included in the taxation (https://www.cleiss.fr/docs/regimes/regime_france/an.1.html < https://www.cleiss.fr/docs/regimes/regime_france/an.1.html >). Foreigners can benefit from government support for housing and children's education depending on their income. French school fees are free or low. Several public schools located in Montpellier area offer international sections (English, Spanish, Arabic, Chinese). Foreign researchers can get additional information and administrative help from Euraxess local office. The city of Montpellier and its surrounding area combine culture, good infrastructure, warm weather (with soft winters), all the amenities within a walking distance and a sophisticated yet not too urbanised lifestyle. Montpellier is a dynamic city with more than 50% of the population under 34 years old because of its universities and its living environment. Montpellier has its own airport with connections to the UK and Europe and a direct train to Paris and other main European cities (Barcelona, Lyon, etc.). Surroundings combined with Mediterranean climate offer great opportunities for outdoor activities in sea and mountain environments.

Informal inquiries are welcome and can be addressed to Cécile Berthouly-Salazar (*cecile.berthouly@ird.fr*) and Concetta Burgarella (*conchetta.burgarella@ebc.uu.se*). Full applications should be sent by email to Cécile Berthouly-Salazar and Concetta Burgarella, accompanied by a 1) cover letter, 2) a detailed CV, 3) a list of publications,

and 4) two referees contact numbers. Application deadline is set at *15/02/2021*; reviewing of applications will begin soon after the deadline but the position will remain open until a suitable candidate is identified.

Dr. Cécile Berthouly-Salazar IRD Senior researcher

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NaganoU FishEvolution

Job Opportunities:

Postdoctoral Researchers (temporary job)

Nagano University - Nagano, Japan

Nagano University is seeking a few trained postdoctoral researchers (Ecology/River Ecological Engineering or Image Recognition and Machine Learning of Fishway Fishes) to work with a team on a study of the importance of habitat connectivity in rivers and its impact on riverine ecosystems and conservation measures (Project Head: Professor Hiroshi Hakoyama). The project is supported by the Ministry of Land, Infrastructure, Transport and Tourism of Japan, and is going to last for at least 5 years.

Duties & Responsibilities

(1) Ecology/River Ecological Engineering (field research and experiments). Research will be conducted to evaluate the function of longitudinal continuity (such as mainstream tributaries, upstream and downstream) and transverse continuity (such as riverbanks, recreational areas, open levees, and peripheral habitats) in restoring and preserving ecosystems.

Moreover, the postdoctoral researcher should cooperate and write papers with co-workers, participate in team discussions, assist the members of the team and the lab in all respects, and accept other duties as assigned.

Information

Minimum education: Ph.D. in a related field

Applications: When applying for this position, please send a CV/cover letter and letters of recommendation from the research supervisor or the department head

to Institute of Freshwater Biology, ifb@nagano.ac.jp by e-mail with the title "IFB_2022".

Deadline to apply: Ongoing (Open until filled)

Location: 1088 Komaki, Ueda, Nagano 386-0031, Japan

Employment period: from 2022/04/01 (if possible, as soon as possible) to 2023/03/31. The employment period may be extended based on performance and availability of funding.

Regular work hours: 8:30-17:15 (Break time 12:00-13:00), Monday-Friday

Salary: 330,900-470,000 yen a month (according to research experience and achievements). The absence deduction will be calculated based on the amount of absence hours/days in accordance with the laws on employment.

Employee benefit: Employee must join the Japanese national social (health) insurance and pay employment insurance in accordance with the laws of Japan. Part of the cost is borne by the Employee and deducted from the monthly post-tax remuneration each month on payday (inquiry e-mail address: soumu@nagano.ac.jp). Nagano University will pay the cost of the LCC ticket from your country to Japan at the start of the contract and pay the cost of the return ticket at the end of the contract. Nagano University will pay the cost of a registered guarantor for your apartment.

URL: <https://www.nagano.ac.jp/outline/facilities/ifb/-ifb/> https://www.nagano.ac.jp/education_research/ifb/-Activities_2021/ —

Job Opportunities:

Postdoctoral Researchers (temporary job)

Nagano University - Nagano, Japan

Nagano University is seeking a few trained postdoctoral researchers (Statistician and/or Pop-up Argos tag researcher) to work with a team on a study about the population dynamics and fisheries management of Japanese eel (Project Head: Professor Hiroshi Hakoyama). The project is supported by the Fisheries Agency of Japan and is going to last for at least several years. The outcome of the project is expected to contribute to discussions at FAO, IUCN, and CITES and policy design and implementation for the management of Japanese eel.

Duties & Responsibilities

(1) Statistician (frequentist, time-series analysis, mixed-effects models, fisheries management, mathematical modeling): analyzing spatiotemporal multivariate time-series of fisheries and environmental data of Japanese

eel in frequentist approaches; developing statistical and mathematical methods for fisheries management.

(2) Pop-up Argos tag, experimental researcher, field-worker: conducting field experiments to track silver eels using pop-up Argos tags at several locations in Japan; conducting laboratory experiments using yellow eels for developing the new pop-up Argos tag cooperating with Little Leonardo Co.

Moreover, all postdoctoral researchers should cooperate with each other, write papers with co-workers, participate in team discussions, assist the members of the team and the lab in all respects, and accept other duties as assigned.

Information

Minimum education: Ph.D. in a related field

Applications: When applying for this position, please send a CV/cover letter and letters of recommendation from the research supervisor or the department head to Institute of Freshwater Biology, ifb@nagano.ac.jp by e-mail with the title "IFB_postdoc_2022".

Deadline to apply: Ongoing (Open until filled)

Location: 1088 Komaki, Ueda, Nagano 386-0031, Japan

Employment period: from 2022/04/01 (if possible, as soon as possible)

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NewMexico LosAlamosNatlLab AlgalGenomics

Biosciences Genomics Postdoc

What You Will Do The LANL Genomics Team is looking for a highly motivated, productive, and multi-talented postdoctoral candidate to pursue research within a team of scientists working on algal and bacterial growth, cell cycle, and evolution experiments. Expertise in algal or plant cell cycle or plant breeding is highly preferred. The applicant will be working both on algal and bacterial projects.

Biosciences Genomics Team capabilities include both a core sequencing facility specializing in Illumina and

PacBio technologies, and a bioinformatic data analysis group adapting state-of-the-art methods and devising novel strategies and algorithms to better interpret genomic, metagenomic, transcriptomic, and epigenetic NGS data. Our group comprises experimental and computational bioscientists working on projects that span a range of topics, including algal biology/bioenergy, microbial ecology, bacterial/viral/genome evolution, host-microbe interactions (e.g. host-pathogen, fungal-bacterial symbioses, etc.), cancer biology, biosurveillance, and pathogen diagnostics. One position is available, splitting time between algal growth experiments and bacterial growth and evolution experiments. Additional projects or topics of interest will also be available depending on candidate interests.

The specific subject of the applicant's PhD degree is not restricted to any specific domain, but experience in culturing or experimentation with plants, algae, or bacteria is strongly preferred. The candidate should be equally comfortable working independently as well as part of a team, be familiar with good laboratory practices and biological experiment design, have experience or interest in working with eukaryotic cell cycles, algal growth experiments, bacterial evolution experiments, and must have excellent written and oral communication skills. Applicants should also have a good publication record or publications in preparation.

What You Need Minimum Job Requirements: Excellent writing and communication skills A strong publication record in peer-reviewed journals Demonstrated working experience in algae or plants Ability to obtain a DOE Q Clearance which typically requires US Citizenship

Education/Experience: Ph.D. in plant physiology, microbiology, ecology, evolutionary biology, genetics or a related STEM field completed within the last five years or will have completed all Ph.D. requirements by commencement of appointment.

Notes to Applicants: In addition to applying on-line, candidates should submit by email their CV, a very brief letter of interest, as well as names and contact information for 3 references to Erik Hanschen (hanschen@lanl.gov). Selected candidates will be contacted for telephone interviews from January-February 2022. This position is for a two-year term. Exceptional candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious Darleane Christian Hoffman, Richard P. Feynman, J. Robert Oppenheimer, or Frederick Reines Fellowships. The

For general information of the Postdoc Program, including salary guidelines, go to [https://www.lanl.gov/careers/career-options/postdoctoral-](https://www.lanl.gov/careers/career-options/postdoctoral-research/index.php)

[research/index.php](https://www.lanl.gov/careers/career-options/postdoctoral-research/index.php) Where You Will Work The Bioscience Division at Los Alamos National Laboratory (LANL) is comprised of experimental and computational scientists who work to solve national biosecurity and bioenergy challenges. The Public Health Group within the Bioscience Division focuses on the health effects of human diseases - both naturally occurring or manmade threats - to improve detection and prediction of pathogenesis and to develop countermeasures and therapeutics.

Located in beautiful northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. Our generous benefits package includes: PPO or High Deductible medical insurance with the same large nationwide network Dental and vision insurance Free basic life and disability insurance Paid maternity and parental leave Award-winning 401(k) (6% matching plus 3.5% annually) Learning opportunities and tuition assistance Flexible schedules and time off (paid sick, vacation, and holidays) Onsite gyms and wellness programs Extensive relocation packages (outside a 50 mile radius)

Erik Hanschen <e.hanschen@gmail.com>

New York City Drosophila Evolution Genomics

Postdoctoral positions in Drosophila evolutionary genomics/genetics/speciation

The Eric Lai lab at Memorial Sloan Kettering Cancer Center, NYC (<https://www.mskcc.org/research/ski-labs/eric-lai>) has positions open at postdoctoral or staff scientist levels to investigate RNA-related mechanisms during Drosophila evolution. Our group uses integrated approaches to study several areas in post-transcriptional regulation, but we have particular interest in alternative mRNA processing and small RNAs.

1. What are the biological roles of RNAi and siRNAs? While critical tools for experimental gene suppression, their endogenous utilities are less clear. Our recent studies reveal that RNAi represses specific targets in testis, and that this is relevant to meiotic drive and sex chromosome conflicts. Surprisingly, since these genomic battles are evolutionarily short-lived, the major insect model *D. melanogaster* is a far less compelling setting for RNAi biology than many non-model fruitflies. In unpublished

efforts, we established a broad foundation on the evolutionary dynamics of RNAi substrates, novel genetic tools to study the roles of RNAi in meiotic conflict, and knowledge of numerous RNAi targets that manipulate gamete distribution via unknown mechanisms. These studies are poised to reveal molecular mechanisms that mediate speciation.

2. How plastic is RNA processing across evolution? From our work in *D. melanogaster*, we defined several landscapes of mRNA isoforms (eg splicing and alternative 3' UTRs) and short RNAs (miRNA/siRNA/piRNA) and their underlying molecular pathways. While many are conserved, we find subsets that evolve rapidly. By studying these using genomics and biochemistry, we gain insights into strategies that mediate biogenesis of alternative isoforms and de novo genes. On the other hand, such evolutionary flexibility may not necessarily be desirable, and we also have evidence that de novo transcripts and isoforms may trigger regulatory defense mechanisms. These studies will reveal fundamental principles that generate tissue-specific transcriptomes, and purify them of unwanted transcripts while permitting species-specific genes to emerge.

We welcome applications from candidates with experience in molecular genetics, evolutionary genomics, or both. These projects currently focus on flies, but we seek to extend principles into mammals. We have an interactive, multidisciplinary, and collaborative team engaged in diverse topics in regulatory biology, and Sloan Kettering provides a vibrant research community committed to inclusivity and diversity.

Positions are currently available, funded by a new 4-yr NIH-R01 grant, and include nearby subsidized housing and benefits. Please provide CV, motivation letter and references to Eric Lai, laie@mskcc.org.

Recent papers on roles of endogenous RNAi and control of intragenomic conflict and speciation Vedanayagam J., C.-J. Lin and E. C. Lai (2021). Rapid evolutionary dynamics of an expanding family of meiotic drive factors and their hpRNA suppressors. *Nature Ecology and Evolution* <https://doi.org/10.1038/s41559-021-01592-z>. Highlighted in *Nat Eco Evol* <https://doi.org/10.1038/s41559-021-01601-1>. Lin C.-J., F. Hu, R. Dubrulle, J. Vedanayagam, J. Wen, P. Smibert, B. Loppin and E. C. Lai (2018). The hpRNA/RNAi pathway is essential to resolve intragenomic conflict to permit transmission of sons. *Developmental Cell* 46: 316-326. (Featured in *Developmental Cell* 46: 251-253).

Kondo S., J. Vedanayagam, J. Mohammed, S. Eizadshenass, L. Kan, N. Pang, R. Aradhya, A. Siepel, J. Steinhauer and E. C. Lai (2017). New genes often acquire male-specific functions but rarely become essential

in *Drosophila*. *Genes and Development* 31: 1841-1846. (Highlighted in *Genes and Development* 31: 1825-1826.)

Wen, J., H. Duan, F. Bejarano, K. Okamura, L. Fabian, J. A. Brill, D. Bortolamiol-Becet, R. Martin, J. G. Ruby and E. C. Lai (2015). Adaptive regulation of testis gene expression and control of male fertility by the

Drosophila hairpin RNA pathway. *Molecular Cell* 57: 165-178.

Recent papers on transcriptome evolution Mohammed, J., A. S. Flynt, A. M. Panzarino, M. Mondal, M. DeCruz, A. Siepel and E. C. Lai (2018). Deep experimental profiling of microRNA diversity, deployment, and evolution across the *Drosophila* genus. *Genome Research* 28: 52-65.

Sanfilippo P., J. Wen and E. C. Lai (2017). Landscape and evolution of tissue-specific alternative polyadenylation across *Drosophila* species. *Genome Biology* 18: 229. doi: 10.1186/s13059-017-1358-0.

Wen, J., E. Ladewig, S. Shenker, J. Mohammed and E. C. Lai (2015). Analysis of nearly 1000 mammalian mirtrons reveals novel features of Dicer substrates and miRNA evolution.

PLoS Computational Biology 11 (9): e1004441.

Eric Lai Member, Sloan-Kettering Institute

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PennsylvaniaStateU EvolutionaryGeneticsBees

The Hines Lab at The Pennsylvania State University (Biology Department, University Park, PA, USA; hineslab.org) is hiring a Postdoctoral Scholar to perform research on an NSF-funded project examining the genetic basis of mimetic color diversity in bees. The postdoc will lead a project examining how transcriptomes shift with the repeated acquisition of mimetic color variants spanning a clade of North American bumble bees. The exceptional diversity and convergence in this system provides an opportunity to examine the different genetic routes to an adaptive phenotype and to connect micro- to macroevolutionary processes through exam-

ining patterns of inheritance of adaptive alleles across lineages.

The project involves field collection of bumble bee queens in the western United States, rearing of colonies, developmental staging and dissections, transcriptome sequencing, and comparative analysis of transcriptome variation across several bumble bee morphs and species. Applicants must have a Ph.D. in a biology-related field, have a strong record of research involving both molecular and bioinformatic techniques, and an interest in evolutionary genetics/evo-devo. Experience in working with insects is desired, but not necessary.

This experience provides numerous opportunities for training as PSU has a strong focus on Bioinformatics and Genomics, houses several project-relevant facilities in the PSU Huck Institute of Life Sciences (e.g., microscopy, genomics, proteomics, bioinformatics), is home to the Center of Pollinator Research and the Insect Biodiversity Center, and offers numerous cross-departmental seminars and programs. The postdoc will also engage the labs of Jeff Lozier (U. Alabama) and Jonathan Koch (USDA ARS, Utah) in this research.

The Pennsylvania State University requires all applicants to register and complete the application form at the Penn State employment website (https://psu.wd1.myworkdayjobs.com/PSU_Academic/job/-University-Park-Campus/Postdoctoral-Scholar---Hines-lab_REQ_0000021143-1). A complete application will include a cover letter detailing relevant experience and research interests, a current CV, and contact information for three professional references. As per Penn State policy, this is a limited-term appointment funded for one year from date of hire with excellent possibility of re-funding with intention of 3 years of funding. Anticipated start date is between January 2022 and Summer 2022. Review of applications will continue until the position is filled. Interested applicants are encouraged to contact Heather Hines (hmh19@psu.edu) for more information.

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, inclusion, and sustainability in all of its forms. We embrace individual uniqueness, foster a culture of inclusion that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity in society and nature, and engage all individuals to help them thrive. We value inclusion as a core strength and an essential element of our public service mission.

“Hines, Heather M” <hmh19@psu.edu>

PennsylvaniaStateU TreeConservationGenomics

The Hamilton Lab (<http://jillahamilton.com/-index.html>) at The Pennsylvania State University is seeking to hire a postdoctoral research associate to contribute to a conservation genomics research program on ex situ and living collections of Oregon ash. The project includes a large collaboration with the US Forest Service, Huntington Botanic Garden, and Oregon Department of Forestry. The researcher will contribute to range wide field sampling for ex situ conservation and process tissue for landscape genomic and gene-environment analyses (GEA) in Oregon ash (*Fraxinus latifolia*). One major goal of the project is to create a 'genetic passport' for ex situ seed collections of Oregon ash. In addition to range wide sampling, genomic screening of living collections maintained for EAB-screening and genecology will be used to assess fine-scale variation within and among families for development of seed orchards and breeding programs. The post-doctoral position is highly interdisciplinary, combining population and landscape genomic analyses to quantify genetic variation maintained within ex situ collections, will use GEA analyses to estimate genetic-environmental associations necessary to establishing seed-transfer guidance across climatic gradients, and contribute to genomic screening of families to pair with EAB-resistance phenotyping. The major goal of this research will be to build new methods in conservation genomics taking advantage of genomics-driven monitoring of ex situ and living collections for species at risk that will be necessary for conservation and development of resources necessary to establish breeding programs.

The position requires a Ph.D. in forestry, evolutionary biology, population genomics, landscape genomics, bioinformatics, or a related field, and the applicant must be able to provide evidence that all requirements have been met for the completion of the PhD. prior to the effective date of hire. Familiarity with analyzing RAD-seq data and expertise using bioinformatic tools to infer genomic structure is necessary, as well as experience using Unix or Linux environments. The postdoctoral fellow will be expected to contribute to field collections, analyze genomic, phenotypic and climatic datasets, lead preparation and publication of peer-reviewed manuscripts, present findings from the research project, and con-

tribute to outreach associated with the project. In addition, there will be ample opportunity to pursue research questions besides those of the particular study.

Interested applicants should submit a cover letter describing research interests and experience, a curriculum vitae, and contact information for three professional references. This is a limited-term position funded for one year from date of hire with an excellent possibility of renewal for an additional year. This position will be located at Penn State in University Park. Review of applications will begin immediately and continue until the position is filled. Informal inquiries are welcome - contact Jill Hamilton (jvh6349@psu.edu)

https://psu.wd1.myworkdayjobs.com/en-US/-PSU_Academic/job/University-Park-Campus/-Postdoctoral-Scholar—Conservation-and-Landscape-Genomics_REQ_0000020265-1 Jill Hamilton Director, Schatz Center in Tree Molecular Genetics Ibberson Chair of Silviculture Research Department of Ecosystem Science and Management Pennsylvania State University University Park, PA, USA 16802 (she/her/hers)

jvh6349@psu.edu

Sanger 2 Sequencing Insects

We are looking for two Advanced Research Assistants (one long term, and one 12 month maternity cover) to work as part of our team, focused on using sequencing approaches to study flying insects and their associated cobionts. The primary aspect of your role will be to run projects in the molecular lab including but not limited to high throughput DNA and RNA extractions, PCRs, evaluation and testing of new SOPs, and detailed tracking of sample management and processing. We often have new project ideas that require creativity and independent research to implement, and we are looking for a creative problem solver who takes initiative and has genuine interest in helping all lab projects succeed. You'll be experienced handling large numbers (1000s) of samples, with careful attention to detail. You'll have at least one year of full time lab experience with DNA and/or RNA, including extractions, measuring quality and quantity, PCR, troubleshooting, summarizing and presenting results to the lab team, and making proposals for next steps.

More about our lab here: <https://www.sanger.ac.uk/-group/lawniczak-group/> Apply here for the full time position <https://jobs.sanger.ac.uk/vacancy/->

[advanced-research-assistant-468484.html](https://jobs.sanger.ac.uk/vacancy/advanced-research-assistant-468484.html) Apply here for Maternity Leave cover (up to 12 month position) <https://jobs.sanger.ac.uk/vacancy/advanced-research-assistant-maternity-leave-cover-468494.html> Thank you. Mara Lawniczak

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.

Mara Lawniczak <maralaw@psu.edu>

Sao Carlos Brazil Metabarcoding

Dear Gentlemen,

I would appreciate your help for announcing a Postdoc position for Metabarcoding at Federal University of São Carlos, Brazil as following:

PD fellowship opportunity: Metabarcoding for identification of terrestrial mammals

The Laboratory of Molecular Biodiversity and Conservation (LabBMC), under the coordination of Pedro Manoel Galetti Junior and Patrícia Domingues de Freitas, Department of Genetics and Evolution, Federal University of São Carlos, participates in the FAPESP Thematic Project “Evaluation, recovering and conservation of the endangered fauna of the Pernambuco Endemism Center (CEP)”, which is coordinated by Luis Fabio Silveira (MZUSP, São Paulo), and offers a postdoctoral fellowship for a foreign or Brazilian candidate, who has completed a doctorate not more than six years before the start of the scholarship, to develop activities of “Re-assessment of the species of mammals that are believed to be locally extinct in the Center of Endemism Pernambuco (CEP), from DNA of mixed samples (metabarcoding)”, having specific objectives :

Metabarcoding analyzes for identification of the vertebrate community based on mixed DNA samples from the blood of hematophagous mosquitoes and other potential arthropod fauna samplers;

Evaluation of the occurrence of medium and large mammal species in the area;

Survey of the mammal species occurring in CEP, generating a DNA barcode database of these animals.

This opportunity is open to highly qualified Brazilians

and foreigners. The candidate can have training in Genetics or Zoology or Ecology or Biology, satisfactory CV and scientific knowledge in the research area of the scholarship. Previous field and laboratory experience in environmental DNA work and/or invertebrate-derived DNA (or ingested DNA), as well as in bioinformatics for metabarcoding analyses, will be considered. The candidate must be able to read, write and speak English and ability to write scientific articles and readiness to reside in São Carlos, SP, Brazil. The candidate will also need to be able to make periodic field trips to the state of Alagoas (Brazil) (10-15 days each). The selected candidate will be involved in the planning and execution of the research activities mentioned in this notice and will also work in the administration of the laboratory and co-orientation of graduate and undergraduate students. The professional should be familiar with bibliographic search tools, know how to plan and conduct experiments independently. Among the knowledge and techniques necessary for the development of this project we emphasize:

1. Field experience and collecting biological material for metabarcoding analysis in the project study area, as well as assisting the other project field collections when necessary;
2. Extraction and preparing DNA for large-scale sequencing and obtaining metabarcoding;
3. Understanding bioinformatics reasonably and ability to analyze the metabarcoding data produced;

*Contract period and start of work: *The scholarship lasts 23 months. The forecast is to begin in March 2022.

*Values and conditions: *

1. Monthly income (free of taxes) of R\$ 7,373.10 (Brazilian currency), plus 15% of the annual value for expenses related to research (Technical Reserve);
2. Financial support for travel and installation expenses may be requested for selected applicants and the merits will be analyzed by FAPESP upon acceptance of the concession;
3. The candidate must have completed a doctorate not more than six years before the start of the scholarship;
4. The scholarship requires full dedication to the research project (except under the conditions described in resolution PR 13/2009 of July 15, 2009);
5. The grantee may not have any formal or informal employment, nor receive, during the period of the fellowship, a scholarship from another entity, salary or remuneration derived from the exercise of activities of any nature.

6. For the implementation of the scholarship the selected candidate must present all the documentation required by FAPESP;

For more details, go to: *<http://www.fapesp.br/270>* < <http://www.fapesp.br/270> >.

*How to apply: *The submission deadline is January 30, 2022. Registration exclusively by email (pmgaletti@ufscar.br). Include the subject "Post-doctoral project ARCA project", followed by your name, and send the following files in PDF format:

1. An English text with a maximum of 2 pages explaining your motivations to work on this project and describing your previous field and laboratory experience in environmental DNA work and/or invertebrate-derived DNA (or ingested DNA), as well as in bioinformatics for metabarcoding analyses
2. Summarized CV (maximum four pages), including published papers attesting to the capacity to carry out the project;
3. Two letters of recommendation from researchers who should send them

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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>

SouthAfrica eDNAMetabarcoding

The Centre for Ecological Genomics and Wildlife Conservation (<https://molzoolab.co.za/>), the African Centre for DNA Barcoding (<https://www.acdb.co.za>) and the von der Heyden lab at Stellenbosch University (<https://www.vonderheydenlab.com/contact.html>) jointly invite applications for a Global Excellence and Stature (GES 4.0) postdoctoral research fellowship.

This is one of the most prestigious fellowships available in southern Africa (<https://www.uj.ac.za/wp-content/uploads/2021/11/call-for-global-excellence-stature-multi-disciplinary-call.pdf>). The value of the fellowship is R220000 per annum, and top-up funding is available for exceptional performance.

Candidates should have substantial experience in the analysis of eDNA metabarcoding data, using software such as OBIttools, Anacapa, or others that demonstrate skills in unix-based applications.

The suitable candidate will work on existing and soon to be generated eDNA metabarcoding data of animals and plants from a wide variety of sources, including (but not limited to) rivers, estuaries and relic estuarine lakes in South Africa, Mozambique and Madagascar, groundwater, faecal metabarcoding of fish to assess diet composition, as well as living stromatolite formations. Project collaborators include Michelle van der Bank (African Centre for DNA Barcoding), Sophie von der Heyden (Stellenbosch University), Silke Laakmann (University of Oldenburg), Stefano Mariani (Liverpool John Moores University), Gavin Rishworth (Nelson Mandela University) and Fiona Mackay (Oceanographic Research Institute).

An enthusiastic and productive applicant will receive a career boost by gaining experience as an officially registered co-supervisor of several postgraduate students (MSc and PhD level), and by being involved in the publication of several scientific papers as a first or contributing author.

The most suitable applicant will be selected around January 7. The applicant is then expected to work with the hosts on a project proposal that will be submitted to the University of Johannesburg's GES panel on January 14 (<https://app.sintelforms.com/-Anon?SPHostUrl=https://ujac.sharepoint.com/sites/-ujpostgradschool&List=7b1f5795-b145-4c2c-b729-0b84adb55ef>). Our group has a very high success rate in being awarded these fellowships.

The actual commencement date of the position is flexible but should be no later than 3 months after the outcome of the GES application has been announced (February 2022). Depending on performance, the position may be renewed for up to two additional years. The successful applicant is free to choose the preferred location of residence, which will be either Melville/Auckland Park (Johannesburg) or Stellenbosch (near Cape Town). Remote work is encouraged, although the limited impact of the omicron variant suggests that South Africa has very high levels of herd immunity, and no more lockdowns are expected.

Interested candidates should send the following documents to Prof. Peter Teske (pteske101@gmail.com); the review of applications will commence immediately:

- * A motivation letter not exceeding 1 page in which the applicant briefly summarises skills and interests (with a particular focus on experience with eDNA applications)
- * A short CV (1-2 pages)
- * Proof of having completed a PhD no earlier than 2017 (e.g. a scan of the PhD certificate or academic record)
- * PDF (or acceptance letter) of at least one published (or in press) scientific paper on eDNA metabarcoding (at least one first authorship

is a prerequisite) * Contact details of three references

Peter Teske <pteske101@gmail.com>

StockholmU Evolutionary Genomics

****Evolution of a classic supergene - Carl Tryggers Postdoctoral Fellowship****

A two-year Carl Tryggers Postdoctoral Fellowship is now available to work on supergene evolution in the Slotte lab at Stockholm University.

Project Supergenes are sets of loci that can maintain adaptive combinations of traits, because they are inherited as a unit. They are responsible for a wide range of balanced polymorphisms, yet our understanding of their origin and evolution remains incomplete. Distyly is a balanced floral polymorphism that is governed by a supergene. In this project, we aim to study molecular evolution of the distyly supergene in *Linum* (wild flaxseed species), a plant system that is ideal for this purpose. As part of an ongoing ERC-funded project, we have generated high-quality genome assemblies from several *Linum* species and population genomic data that will now be used to comprehensively study the evolution of the S-locus region.

Main responsibilities The Carl Tryggers postdoctoral fellow will lead and conduct evolutionary genomic analyses with particular focus on patterns of molecular evolution at the distyly supergene and comparative genomic analyses to pinpoint the role of structural variation for recombination suppression.

Qualifications The fellowship is for two years, funded by a stipend from the Carl Tryggers foundation. Ideally we are looking for a candidate who can start in the spring of 2022, but the starting date can be discussed. According to the rules of the Tryggers foundation, the PhD degree must be less than six years old, and applicants must receive final approval by the foundation.

Applicants are required to hold a PhD, preferably in evolutionary genetics, population genetics, comparative genomics, bioinformatics, or related topics. The candidate should have proven experience in genomic analyses with an evolutionary genetic focus and very good writing skills. Candidates should be able to work independently, as well as together with team members, and exhibit drive and motivation for the research task. Excellent proficiency in English (the working language of the group) is required.

Environment The Carl Tryggers postdoctoral fellow will be based in the research group of Dr. Tanja Slotte (<http://tanjaslottelab.se>) and will join an already existing group of highly motivated and skilled postdocs and PhD students. In terms of work environment, we have access to office space and fully equipped facilities for molecular genetic lab work and plant work at the Dept. of Ecology, Environment and Plant Sciences and high-performance computing infrastructure at UPPMAX (<http://www.uppmax.uu.se>).

Application To apply, please email a pdf with a cover letter motivating your interest and suitability for the fellowship, a CV including contact information to 2-3 reference persons, a publication list and a copy of your PhD diploma directly to tanja.slotte@su.se. Please specify "Carl Tryggers postdoc 2022" in the subject header.

The fellowship will remain open until filled, with application review starting on January 17th, 2022.

For more information, see <https://tanjaslottelab.se/join-the-lab/> . For informal questions, feel free to contact Dr. Tanja Slotte at tanja.slotte@su.se.

Tanja Slotte PhD, Associate Professor Subject Representative for Ecology and Evolution Department of Ecology, Environment and Plant Sciences (DEEP) Stockholm University 106 91 Stockholm

E-mail: tanja.slotte@su.se

Tanja Slotte <Tanja.Slotte@su.se>

StockholmU YeastGenomicsAndEvolution

Postdoctoral position in Yeast Genomics and Evolution at Stockholm University, Sweden Start date: as soon as possible Application date: 15 January 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. Please apply through the official Stockholm University job platform: bit.ly/3oOJ2HA < <https://t.co/DHkrNGPpjA> >

The Stelkens Lab is working on a range of topics including hybridization, the genetic architecture of adaptation, environmental stress, fitness landscapes, lineage tracking, transposable element evolution, and phylogenomics. 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 10 researchers from 7 different countries. The position (100% research) is for 2 years.

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 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, 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>

TexasAMU FunctionalTraitEvolution

Postdoc in Functional Traits & Spatial Ecology in Africa

We are seeking a new member of our research community to be jointly supervised by Dr. Michelle Lawing (Texas A&M) and Dr. Jenny McGuire (Georgia Tech). This postdoctoral research associate would join a vibrant team of international researchers investigating vertebrate functional trait responses as indicators of ecosystem function. Researchers with training in paleontology and/or evolutionary biology are encouraged to apply.

The researcher will be responsible for performing research tasks and helping to organize and participate in broader impacts outlined in a jointly funded NSF-NERC award titled “Vertebrate functional traits as indicators of ecosystem function through deep and shallow time.” In addition to Michelle and Jenny, you would be working with international principal investigators Dr. Jason Head (University of Cambridge) and Dr. Fredrick Manthi (National Museums of Kenya) in Cambridge, UK and Nairobi, Kenya.

Depending on postdoc interest and expertise, tasks may include a combination of the following: (1) organizing, overseeing, and conducting measurements of functional traits in cranial and postcranial material in mammals and/or reptiles at the National Museums of Kenya and other museums as necessary for complete sampling, (2) finding, organizing, and extracting paleo and modern environmental data associated with study sites, (3) computational analysis and modeling of paleo and modern community functional traits and associated paleo and modern environmental data, (4) spatial analysis of trait-environment data through time (including modern to future projections of trait connectivity across a landscape), (5) preparation of data, code, figures, tables, and text for manuscripts, (6) mentorship of students and facilitation of collaboration among senior personnel and other collaborators through organizing and participating in team meetings.

Required Documents to Submit: Applicants should upload a single pdf, which should include: (1) Cover letter stating your interest in this position, your fit and your previous experience related to this position description, including scientific goals and interests, (2) CV, (3) Names and contact information for three persons willing

to provide a recommendation.

If the description of this position sounds interesting to you, even if you do not possess all skills listed, we strongly encourage you to apply to be considered for this opportunity.

We will begin reviewing applications 12/15, until filled.

Apply here: <https://tinyurl.com/2p9hzanb> Please contact Michelle (alawing@tamu.edu) and/or Jenny (jmcguire@biology.gatech.edu) with any questions.

Looking forward to your application!

Michelle Lawing <Anna.Lawing@ag.tamu.edu>

TulaneU Biodiversity

Postdoctoral Research Associate

The Tulane University Biodiversity Research Institute (TUBRI) is a research center of Tulane’s School of Science and Engineering, located on the grounds of the F. Edward Hebert Research Center in Belle Chasse, Louisiana, a suburb of New Orleans. TUBRI houses the Royal D. Suttkus Fish Collection and specializes in biodiversity discovery (primarily fishes) and biodiversity informatics research. Henry L. Bart, Jr., Professor of Ecology and Evolutionary Biology serves as TUBRI Director and Yasin Bak?? is Senior Manager of Biodiversity Informatics and Data Engineering for the center. A postdoctoral research associate is sought to provide biological expertise and insight to the newly funded, NSF Harnessing the Data Revolution Institute project entitled, Imageomics: A New Frontier of Biological Information Powered by Knowledge-Guided Machine Learning. The project involves using Machine-Learning methods to train neural networks to extract phenotypic trait data from images of fish specimens, aided by a fish anatomy ontology and trees depicting phylogenetic relationships among tested fish species. The successful candidate will actively participate in the research of the project under the mentorship of Bart and Bak??.

1. Analyzing images of fish specimens and corresponding metadata and creating reports based on the statistics about the data
2. Extracting morphological traits from fish specimen images to verify species identity
3. Designing and following workflows and pipelines for processing images and using extracted morphological traits data in “morphological barcoding” experiments for diagnosing the various taxonomic groups.
4. Verifying project out-

puts for scientific accuracy 5. Support the coding team by * assisting in software design where biological expertise is needed * making sure the software is properly documented and openly accessible * providing scientific input during the coding process so that outputs are scientifically sound and publishable 6. Attending related workshops, training programs, and meetings 7. Keeping abreast of the latest literature and openly sharing finding with project collaborators, 8. Work collaboratively with Imageomics ML experts to explore deep-learning methods, 9. Perform scientific analyses based on outputs of the project 10. Present analysis results at conferences and publish findings at scientific journals.

Required Knowledge, Skills, and Abilities Prior (proven) experience in at least one of the following fields: Image Processing, Artificial Intelligence, Genetic Algorithms, Biodiversity Informatics, Computational Biology, Bioinformatics, Biomedical Informatics, Ecoinformatics or a related field (scientific publications) Working knowledge of at least three of the following languages (one from each group) {Java, C, C++, C#}, {Python, PHP, Perl}, {R, Bash, JavaScript}, {ORACLE SQL, MSSQL, PostgreSQL, MySQL} Working knowledge of Unix based operating systems Experience in writing grant proposals and scientific publications Strong problem-solving skills

Required Education and/or Experience PhD in Biological Sciences, Biodiversity Informatics, Computer Science, Information Sciences, Computational Biology/Bioinformatics, or a related field Preferred Qualifications Experience with: Image Processing Artificial Intelligence/Neural Networks Genetic Algorithms Web-database applications Experience in parallel computing (GPU) Working knowledge of version control system (GIT)

Other Position is open to international candidates Should be able to travel internationally Strong communication and interpersonal skills

Start date: 1 February 2022 For additional information about the position, please contact Henry Bart (hbartjr@tulane.edu) or Yasin Baki? (ybakis@tulane.edu)

Apply here: <https://apply.interfolio.com/99039> Henry L. Bart Jr., Ph.D. Director, Tulane University Biodiversity Research Institute Curator, Royal D. Suttkus Fish Collection 3705 Main Street, Belle Chasse, LA 70037 Voice: 504-394-1711; Fax: 504-394-5045

Professor of Ecology and Evolutionary Biology, Tulane University 400 Lindy Boggs Hall, New Orleans, LA 70118 Voice: 504-862-8283; Fax 504-862-8706

Website: <http://people.tubri.org/hank/>

hbartjr@tulane.edu

UAB Barcelona Comparative Genomics

Postdoc position in Comparative and Structural Genomics

We are looking for a highly motivated candidate that can apply for a “Juan de la Cierva” postdoctoral fellowship from the Spanish Government to join Ruiz-Herrera’s lab set at Universitat Autònoma de Barcelona (UAB), Barcelona, Spain.

We are seeking for someone with a vivid interest in evolution research and a strong background in bioinformatics and or population genetics/ statistical genetics. The successful candidate will work on a research project focused on the dynamics of genome architecture and gene function in mammals. The central goal of this project is to investigate the evolutionary plasticity and function of higher-order mammalian genome organisation by using a multidisciplinary approach that will combine computational and experimental methods.

Requirements:

PhD degree obtained between 01/01/2020 and 31/12/2021. Competitive publication record.

What we offer: - Two years contract. - The total annual amount stipend will be between euro 25,000 and euro 30,000 gross, depending on experience. - Additionally, the grant includes a complementary amount of euro 4,800 aimed exclusively at educational and training activities and attendance to meetings.

Ruiz-Herrera’s lab is set at Universitat Autònoma de Barcelona (UAB), and consists of a cohesive group of national and international researchers. The long-term research goal of our research group is to provide a unified and encompassing view of how genomes are organized and regulated in mammalian cells. Within this framework, the candidate will develop a project on the evolution and function of mammalian genomes.

See: <https://www.researchgate.net/profile/Aurora-Ruiz-Herrera> Likewise, UAB is located close to the city of Barcelona and is one of the major public universities in Spain. The UAB is internationally acknowledged for its quality and innovation in research. It coordinates a potent scientific and technological centre, which comprises all the departments, science and technology

services, research centres, institutes and university hospitals affiliated with the UAB.

For further information please contact Dr Aurora Ruiz-Herrera directly: aurora.ruizherrera@uab.cat

Complete application packages, including a CV, a brief (1-page) statement of research interests, and the names and e-mail addresses of two referees should be sent to: Dr. Aurora Ruiz-Herrera. Email: aurora.ruizherrera@uab.cat Application deadline: 15th January 2022.

Aurora Ruiz-Herrera Moreno
<Aurora.RuizHerrera@uab.cat>

UAntwerp RMCA Belgium HistoricalEpidemiology

long-term postdoc position in Belgium on historical epidemiology of vector-borne diseases

The University of Antwerp and the Royal Museum of Central Africa (Belgium) offer a combined position (10% junior professor, 90% senior researcher) for a postdoc in Biology, Geography or a related discipline with a background in epidemiology, ecology, parasitology and/or distribution modelling. The position is of indeterminate duration but salary is secured for at least 10 years.

RECORDED: Reconstructing disease dynamics in Central Africa using historical museum collections and archives

The past century has seen unprecedented changes in natural biotopes due to human activities, in Africa perhaps even more than elsewhere. This has affected the distribution and dynamics of infectious diseases, particularly zoonotic infections, transmitted from wildlife to humans. In addition, changes in human demography, agriculture and other human activities in the environment, including health care interventions, have also changed the disease dynamics. Understanding the relative contribution of these factors may help in predicting what the effects can be of future environmental change to the spread of diseases. The scientist we are looking for will use museum collections and historical archives to retrospectively study the impact of environmental and anthropogenic changes on vector and disease dynamics. Despite its enormous potential, this 'unexplored heritage' is vastly underused in epidemiological research. This profile will combine longitudinal series of vector collections and zoonotic disease carriers, with historical

archives such as medical records, aerial pictures and scientific publications. By taking a multidisciplinary approach, combining ecology, geography, modelling and semi-quantitative methods, the changes in the presence, diversity and distribution of pathogens, vectors and animal reservoirs can be documented and related to changes in 1) human demography, 2) climate, and 3) land cover and land use on the spread of vector-borne and zoonotic diseases. By including socio-ecological studies and historical records of disease control efforts, lessons can be learned in order to improve current health policies ('historical epidemiology').

For a start, the research will focus on three vector-borne diseases that are strongly affected by environmental and anthropogenic change and that fall within the expertise of and/or historical documentation at both institutes schistosomiasis, sleeping sickness and bubonic plague.

The full position announcement and instructions for applying can be found at

[https://www.uantwerpen.be/en/jobs/vacancies/-academic-staff/?q=1966&descr=Senior-Academic-Staff-and-postdoc-researcher-/-Work-Leader-\(RMCA\)-RECORDED2:-Reconstructing-disease-dynamics-in-Central-Africa-using-historical-museum-collections-and-archives](https://www.uantwerpen.be/en/jobs/vacancies/-academic-staff/?q=1966&descr=Senior-Academic-Staff-and-postdoc-researcher-/-Work-Leader-(RMCA)-RECORDED2:-Reconstructing-disease-dynamics-in-Central-Africa-using-historical-museum-collections-and-archives). Deadline for application: 17/02/2022

More information about the research project can be obtained from dr. Tine Huyse (tine.huyse@africamuseum.be) or prof. dr. Herwig Leirs (herwig.leirs@uantwerpen.be).

Tine Huyse Royal Museum for Central Africa Department of Biology Leuvensesteenweg 13 3080 Tervuren-BELGIUM

TEL: 0032 (0)2 769 53 72 EMAIL: tine.huyse@africamuseum.be website: <https://www.africamuseum.be/nl/staff/1339> P Before printing, think about the environment

Tine Huyse <tine.huyse@kuleuven.be>

UCalifornia Los Angeles ConservationBiology

Postdoc: UCLA La Kretz Center for California Conservation Science

The UCLA La Kretz Center for California Conservation Science <<http://www.environment.ucla.edu/lakretz/>> invites applications for its 2022 Postdoctoral Fellow-

ship in California Conservation Science. We seek one or more postdoctoral scholars who conducts innovative biological research to work with the La Kretz Center and partner agencies to achieve outcomes that will direct and lead California conservation efforts. Candidates may work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. Our current research directions include, but are not limited to:

(i) conservation science at the urban/wildland interface, particularly invasions at the urban/wildland interface, behavioral attributes of introduced species, and the ecological and evolutionary effects of urbanization; (ii) urban biodiversity, ecosystems, and ecosystem services with an emphasis on comparative assessments of urban biodiversity (phylogenetic, richness, genetic diversity, etc.), evaluations of ecosystem services in the urban environment, and ecosystem ecology; (iii) California conservation science that leverages networks of protected areas to answer questions about speciation, adaptive evolution, and species delimitation or uses these lands to understand the impact(s) of disturbance on species ecology, conservation, or behavior; and (iv) The California Conservation Genomics Project (CCGP) < <https://www.ccgproject.org> >, a large, multi-campus initiative led by the La Kretz Center that is delivering genomic resources to California to enhance species and habitat management.

We seek Fellows whose research overlaps with a minimum of one UCLA faculty member who is a La Kretz affiliate < <https://www.ioes.ucla.edu/lakretz/people/?ioesrole=affiliates> > and one agency partner in California (see below). The Fellow is expected to work closely with their identified UCLA faculty mentor and agency partner(s); projects that have established their team members tend to be favored by our review board. Our current list of possible agency partners, and relevant contacts individuals includes, but is not limited to:

The Nature Conservancy: Sophie Parker, sophie_parker@tnc.org (restoration; urban conservation; invasive species) Natural History Museum of LA County: Jann Vendetti, jvendett@nhm.org (mollusk ecology and evolution; species natural history) US Geological Survey: Robert Fisher, rfisher@usgs.gov (applied conservation; biodiversity; ecology and evolution) US Bureau of Land Management: Mike Westphal, mwestpha@blm.gov (applied conservation, climate change) US Fish and Wildlife Service: Cat Darst, cat_darst@fws.gov (endangered species management) Natural Communities Coalition: James Sulentic, jsulentic@occonservation.org (protection and recovery of sensitive species) National Park Service: Katy Delaney,

katy_delaney@nps.gov (amphibian and avian ecology, evolution, and conservation) National Park Service: Seth Riley, seth_riley@nps.gov (mammalian ecology, evolution, and conservation) Department of Defense: Robert Lovich, robert.lovich@navy.mil (conservation on Dept. of Defense lands)

The La Kretz Fellowship is for two years, subject to review after the first year. The target start date is September 2022, and is flexible. The position offers full benefits, and a research/travel allowance of \$7,500. Candidates who have recently completed their Ph.D. or will have completed it by August 2022 are encouraged to apply.

To apply, please send applications to lakretz@ioes.ucla.edu as a single PDF file that includes (i) a cover letter, (ii) your CV, (iii) a research and management accomplishments statement (maximum two pages), (iv) a project proposal that includes potential La Kretz affiliates and agency partners of interest (maximum three pages, including figures and references), and (v) two of your relevant publications. We also ask that you have (vi) two letters of reference sent, one of which must be from your Ph.D. advisor. Please arrange to have reference letters emailed to the same address with the subject line “La Kretz Postdoc letter for (your last name)”. The deadline for completed applications is December 19, 2021. Please e-mail questions to Brad Shaffer, Director of the La Kretz Center, at brad.shaffer@ucla.edu.

Gary Bucciarelli <garyb@ucla.edu>

UCBerkeley Genomics

Postdoc:UCBerkeley.Genomics

Postdoctoral position on the evolution and genetics of adaptation, speciation, and extreme life-history traits in Pacific Ocean Rockfishes. This work will follow up on our recently published work “Origins and evolution of extreme life span in Pacific Ocean rockfishes” <https://www.science.org/doi/10.1126/science.abg5332>. A fully funded multi-year postdoctoral position is available (initial 12-month appointment). Start date is flexible within the next 6-12mo.

The Sudmant Lab at UC Berkeley is seeking a postdoc to work on the evolution of Pacific Ocean Rockfishes using genome assembly and population genetic sampling data from several species pairs. More than 120 different

species of Rockfishes are found throughout the north-east and northwest Pacific Ocean and they are one of the fastest diversifying clades of rayfinned fishes. Remarkably rockfishes exhibit life spans ranging from 11 years (*Sebastes minor*) to >200 years (rougeye rockfish, *Sebastes aleutianus*). Rockfishes are thus distinctive in that while some species are among the longest-lived vertebrates known to exist, life span can widely range even among closely related taxa.

The candidate will help lead a multi-year fully funded project to study the genetics of adaptation, speciation, and extreme life-history traits in several different recently diverged rockfish species pairs. The project is part of an international collaborative effort with the Owens' Lab at the University of Victoria and Wes Larson's Group at NOAA in Alaska and includes ancient rockfish genomic data being generated in collaboration with Courtney Hofman at the University of Oklahoma and Catherine West at Boston University. The candidate should have experience in genetics, genomics, and using computational approaches to study genetic diversity and evolution. Our lab philosophy is firmly based on the premise that science should be fun, inclusive, collaborative, and open.

Required qualifications: Ph.D. or equivalent in genetics, genomics, biology, computer science or related fields and demonstrated record of productivity and publications. Experience with either generating or analyzing large-scale genomic data.

Please contact Peter with your CV and a brief overview of your interests. Please be prepared to provide scientific references (e.g. advisor / thesis committee members). The position is open until filled with an anticipated start date in mid-2021

Peter Sudmant Assistant Professor Department of Integrative Biology University of California, Berkeley <https://www.sudmantlab.org> psudmant@berkeley.edu Peter Sudmant <psudmant@berkeley.edu>

UCyprus 2 BioinformaticsPopGenomics

We are accepting applications for two postdoctoral researcher positions to work with Alexander Kirschel in the Behavioural Ecology and Evolution Lab at the University of Cyprus. One position is for a bioinformatician focusing on RNAseq, IsoSeq and genome-wide association studies of avian traits associated with behaviour. The second is for a researcher with expertise in population genomics, demographic inference and statistical analyses. They are to work on two new projects involving collaborations with Dr. Bridgett vonHoldt at Princeton University and Dr. Andrea Fulgione at Max Planck Institute of Plant Breeding Research.

The positions are for an initial 12 months, extendable up to 24 months, with a salary range of 30,522 - 41,641 euro per annum, less employer and employee contributions.

The bioinformatician will work primarily on the Cyprus Research and Innovation Foundation (RIF) funded project "Leveraging ancestry to investigate the genomics of song and colour in birds"

The project focuses on a hybrid zone in Southern Africa between yellow-fronted and red-fronted tinkerbirds in which it aims to identify genes and regulatory regions associated with key phenotypic traits, including feather colour and song. It involves admixture mapping, genome-wide association studies and RNAseq and IsoSeq based studies to investigate gene expression and expertise in some of those methods as well as in genomic library preparation would be desired.

Some experience with analysis of avian genomes would be helpful but not essential. The position is based at the University of Cyprus, in Nicosia, but is planned to involve a month-long visit to Princeton to work closely with Dr. vonHoldt. The candidate will also be involved towards manuscript preparation and dissemination of results in scientific conferences.

The postdoctoral researcher with expertise in population genomics will work primarily on the RIF funded project "Continent-wide genomics of hybridisation and speciation"

Here the focus is on establishing the history of isolation, divergence and gene flow among populations of tinkerbirds across sub-Saharan Africa, and in particular across several contact zones using whole genome rese-

quencing and ddRAD sequencing. The project involves sampling across contact zones in Uganda, Tanzania and Ethiopia, and combining those samples with data from samples collected previously from several further contact zones. The postdoctoral researcher will focus primarily on downstream population genomics analyses, especially in demographic inference, working closely with Dr. Fulgione. The ideal candidate will have expertise in site frequency spectrum and multiple sequentially Markovian coalescent (MSMC) approaches, D statistics, and landscape genomics. The candidate will be proficient in R and experience with GIS is desirable but not essential. The candidate will also be involved towards manuscript preparation and dissemination of results in scientific conferences as well as via other outlets.

Applications are due by 14th January or until the positions are filled. Informal enquiries and applications (including a cover letter, CV, details of two referees, and a list of publications) should be sent to:

Associate Professor Alexander Kirschel Behavioural Ecology and Evolution Lab Department of Biological Sciences University of Cyprus

Alex Kirschel <kirschel@ucy.ac.cy>

Alexander Kirschel <kirschel.alexander@ucy.ac.cy>

UCyprus BeetleMetabarcoding

A postdoctoral research position in DNA metabarcoding of sand-dwelling beetle assemblages is available at the University of Cyprus.

POSITION: Two-year postdoctoral position at the Molecular Ecology & Evolution Lab of the University of Cyprus, starting 1st of March 2022. The project is coordinated by Dr. Anna Papadopoulou (University of Cyprus) and will be developed in collaboration with Prof. Alfred P. Vogler (The Natural History Museum, London).

PROJECT DESCRIPTION Coastal sand dune ecosystems are highly dynamic environments, due to their unstable substrate and their constant change in response to wind, waves, tides and sea-level fluctuations. Habitat instability has been proposed to affect dispersal propensity and/or extinction-recolonisation rates, and thus to play an important role in population dynamics, but empirical evidence remains limited. Previous research of our group has identified low genetic diversity and population bottlenecks in some sand-obligate beetle

species. This project will aim to assess the demographic effects of habitat instability at the assemblage level. For this purpose, we will sample systematically ten sand dune ecosystems of different sizes and grades of disturbance along the coast of Cyprus and we will apply whole-organism community mtDNA metabarcoding with rigorous read filtering protocols to obtain haplotype-level data (i.e., Amplicon Sequence Variants; ASVs) for each of the sampled beetle taxa. Based on the ASV data, we will estimate intrapopulation genetic diversity and metrics of population differentiation for each species and we will apply comparative phylogeographic analyses to test for concerted demographic responses across sand-dwelling taxa of different traits (e.g., sand-obligate vs. habitat generalists, flightless vs. winged taxa).

RESPONSIBILITIES: 1. Participation in field sampling of sand-dune ecosystems and sample processing. 2. Sanger sequencing for selected voucher specimens. 3. DNA metabarcoding library preparation from bulk Coleoptera samples. 4. Bioinformatic analyses of metabarcoding data at the species (OTUs) and haplotype levels (ASVs) 4. Comparative phylogeographic and population genetic analyses based on the generated ASVs dataset. 5. Publication of results.

REQUIREMENTS: Applicants are required to have: 1. PhD in Evolutionary Biology, Molecular Ecology or related fields. 2. Experience in DNA metabarcoding methods, including relevant wet-lab protocols and bioinformatic analyses. 3. Experience in Linux/Unix and common statistical environments (e.g., R, Python). 4. Excellent oral and written communication skills in English.

Additional desirable skills: 1. Previous work on insects (preferably Coleoptera). 2. Experience in field sampling. 3. Experience in phylogeography and population genetics.

APPLICATION: Applicants should provide the following documents (preferably as a single pdf file): 1. letter of interest (up to 1 page) 2. short CV (up to 2 pages) 3. contact information of two academic referees

Interested candidates should submit their applications via email to: meelab.cyprus@gmail.com Application deadline: the 12th of January 2022

CONTRACT: Contract duration: 1st of March 2022 until 28th of February 2024. Gross salary: 2,600 euros.

lab website: <https://-meelab.weebly.com> Anna Papadopoulou <a.papadopoulou05@alumni.imperial.ac.uk>

UFreiburg TreeEvolutionaryEcol

The working group of Forest Genetics at the University of Freiburg is looking for a

Postdoctoral researcher (w/m/d)

to work on the (molecular) phenology of tropical tree species and, in general, on the evolutionary ecology of trees.

* Application deadline: 24.01.2022 * Start-date: At the earliest possible date. * Fulltime position

Full announcement can be found here: <https://uni-freiburg.de/universitaet/jobs/00002005/> The successful applicant will be involved in the DFG funded Emmy Noether project on “Phenology of tropical tree species - environmental cues, molecular mechanisms, and consequences for plant-animal interactions”. The project focuses on identifying climatic cues that trigger phenological transitions in four neotropical tree species. We will collect phenological data with an automated camera system and link this information to high-resolution climatic data. In addition, we will investigate the molecular phenology of the trees by targeting changes in the expression of flowering time genes. Moreover, we will study how plant-animal interactions, specifically pollination and herbivory, are influenced by the timing and degree of synchrony within tree populations. Data collection in Southern Ecuador at the Estación Científica San Francisco and in a dry forest site at Las Arenillas will take place from 2022 - 2024. We are now looking for a postdoctoral researcher that will support the coordination of field and lab work with the two Ph.D. students, supervise BSc and MSc students, and carry out his/her own investigations in the framework of this project.

In addition, the successful applicant should establish her/his own research projects in the context of the evolutionary ecology of tree species. Further, the postdoctoral researcher will support the working group in research, teaching, supervision of BSc and MSc students, and administrative tasks. The position comes with a teaching load of 4 semester hours. Courses should preferentially be taught in German.

Your profile You have an MSc in biology, ecology, environmental science, or similar fields and completed a university degree (Ph.D.) with excellent results. Ideally, you have already gained experience in a postdoctoral position. You have prior experience with fieldwork in

the neotropics and are able to communicate with local field workers, NGOs, and authorities in Spanish. Ideally, you have prior experience with research projects with tree ecology, phenology, plant-animal interactions, or population genetics. Prior experience with laboratory work (DNA/RNA extraction, qPCR) is advantageous. You have good communication and team skills, and a meticulous way of working. The ability to work in a team and under physically and mentally demanding conditions of field research in a tropical rainforest is crucial. Specifically, fieldwork will include tree climbing and the topography of the study area is very demanding. Thus, fieldwork requires strong physical fitness and previous experience with tropical fieldwork is desirable. Experience in tree climbing would be beneficial.

Further, we expect good knowledge in data handling and statistical data analysis (preferable in R) as well as the capability to interpret the results and excellent writing skills which should be proven by own scientific publications. Previous teaching experience is beneficial. Applicants should be fluent in German.

What we offer You will be integrated into a newly established working group at the University of Freiburg working on forest genetics and genomics in temperate and tropical regions.

The position offers the possibility for scientific qualification. The postdoctoral researcher will be supported in writing his/her own research proposals. The salary is the standard salary for postdoctoral positions in Germany including social security and health insurance.

Your application Your application will consist of a motivation letter, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references. Please submit your application as a single pdf document. The position is limited to four years. The salary will be determined in accordance with TV-L E13. We are particularly pleased to receive applications from women for the position advertised here. Please send your application in English including supporting documents mentioned above citing the reference number 00002005, by 24.01.2022 at the latest. Please send your application to the following address in written or electronic form:

* Albert-Ludwigs-Universität Freiburg * Faculty of Environment and Natural Resources * Forest Genetics * Prof. Dr. Katrin Heer * Bertholdstraße 17 * 79098 Freiburg, Germany * E-Mail: katrin.heer@for.gen.uni-freiburg.de

For further information, please contact Prof. Dr. Katrin Heer on the

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UHelsinki PopulationGenetics

Postdoctoral researcher position in population/landscape genetics at the University of Helsinki

Postdoctoral researcher position available in an integrative project to address spatio-temporal genetic variation of butterflies in relation to land use and recent population trends for a fixed term of 3-years.

The post doc will join the Life-history Evolution Research Group (<http://www.helsinki.fi/life-history-evolution>) led by Associate Professor Marjo Saastamoinen. The post-doctoral project will also be part of a newly established Centre for Ecological Genetics (EcoGenetics) (<https://bio.au.dk/forskning/forskningscentre/centre-for-ecological-genet...>), an international collaboration between PIs from universities in Helsinki (FI), Aarhus (DK), and Aberdeen (UK), with the aim to understand the effect of insect decline on genetic diversity. In this specific project the successful post-doctoral candidate is expected to use existing time-series genomic data/samples available for the Glanville fritillary butterfly (*Melitaea cinxia*) in the Åland islands, SW Finland, to examine both spatial and temporal patterns of genetic variation in relation to population demographics, climate and land use. Alternatively, or in addition, genetic sampling of different butterfly species with varying population trends across land-use gradient accompanied with historical museum specimens can be used for a more comparative genetic analyses. The centre will further establish relationships between genetic diversity and organismal performance, and develop a predictive modelling framework integrating genetic, ecological and environmental effects on insect population genetics. The research spans several topics in ecological and evolutionary research using different molecular methods and statistical and process-based modelling.

At the University of Helsinki, the research group of M. Saastamoinen is also part of the Research Centre for Ecological Change (www.helsinki.fi/rec) and the Research Programme of Organismal and Evolutionary Biology at the Faculty of Biological and Environmental Sciences. Thus the post doc will have an opportunity to interact within the dynamic and highly international

research environments, with vast expertise in questions related to biodiversity change using long-term ecological monitoring data and spatial statistical analyses. The successful candidate will participate in planning and potentially collecting samples, analyse the genetic data, and lead the writing of the resulting manuscript(s). The candidate is expected to have a strong background in evolutionary ecology, more specifically population or landscape genetics. The successful applicant should have completed a PhD in evolutionary ecology or genetics, or a related field, and have strong statistical or bioinformatics skills. We seek candidates with excellent written and verbal communication skills, and the ability to conceive, execute and complete research projects, and to think independently and creatively. The post doc will work as a part of a team and thus good social skills are also required.

The starting date is 1.2.2022, but a later starting date can be negotiated. There will be a trial period of six months in the beginning.

For more information, contact assoc. prof. Marjo Saastamoinen by email: marjo.saastamoinen@helsinki.fi 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. The starting salary will be ca. 3300-3800 euros/month, depending on the appointee's qualifications and experience.

Application should include the following documents as a single pdf file: - motivational letter (max 1 page), - CV (max 2 pages) - publication list Include also contact information of two persons who can provide a reference letter based on request.

Please submit your application using the University of Helsinki Recruitment System via the Apply link. Applicants who are employees of the University of Helsinki are requested to leave their application via the SAP HR portal. The deadline for submitting the application is 20 December 2021. More information and the apply link: <https://www2.helsinki.fi/en/open-positions/postdoctoral-researcher-in-population-landscape-genetics> In case you need technical support with the recruitment system, please contact [rekrytointi\(at\)helsinki.fi](mailto:rekrytointi(at)helsinki.fi).

Marjo Saastamoinen Associate Professor in Evolutionary Ecology Helsinki Institute of Life Science (HiLIFE)/ Organismal and Evolutionary Biology Research Programme Faculty of Biological and Environmental Sciences

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Ullinois Chicago EvolutionaryBiology

Title: Postdoctoral Research Associate- Bridge to Faculty- Department of Biological Sciences (Job ID #157208)

Department: LAS Biological Sciences

Category: Postdoc Res Assoc

Location: Chicago

Close Date: February 4, 2022

Description: The Department of Biological Sciences in the College of Liberal Arts and Sciences at the University of Illinois at Chicago (UIC) invites applications for a Bridges to the Faculty Postdoctoral Research Associate beginning August 16, 2022. Applicants may work in any area of biology, including but not limited to: molecular biology, cell biology, developmental biology, biochemistry, neuroscience, ecology, evolutionary biology, environmental biology, and computational biology, as well as research in the learning of biology at the college level.

Bridge to the Faculty is a UIC postdoctoral program designed to recruit underrepresented scholars with the goal of transitioning them to tenure-track faculty members after two years (<https://diversity.uic.edu/engagement/-bridge-to-the-faculty/>). This recruitment initiative aims to attract and retain promising scholars to UIC, as well as diversify our faculty to better serve the cultural wealth of our students, our community, and the nation. UIC is a comprehensive, urban, public, Research 1 university with state-of-the-art research facilities and a national leader among public higher education institutions in providing access to underrepresented students. We are among the nation's top five most diverse campuses and are designated as a Minority Serving Institution (MSI), Asian American and Native American Pacific Islander-Serving Institution (AANAPISI), and Hispanic Serving Institution (HSI). See <https://oae.uic.edu/resources/-diversity-resources> for more about Diversity at UIC.

Duties: The successful candidate will spend two years working in a lab in the Department of Biological Sciences that is closely aligned to their research interests,

following a detailed mentoring plan. They are expected to develop a successful independent research program that is competitive for federal grants, and that will allow them to transition to a tenure track faculty position in the Department after two-years. The faculty position will include a competitive start-up package. Although there are no formal teaching duties, the fellow is expected to be involved in mentoring undergraduate research, as well as provide occasional guest lectures to an existing course.

Qualifications: Candidates must have received a Ph.D. in Biology or a closely related field no earlier than August 16, 2018 and no later than August 16, 2022. Although prior postdoctoral experience is preferred, all eligible candidates will be evaluated.

Applicants should submit an online application and additional materials to <https://jobs.uic.edu> February 4, 2022 . Applications must include a cover letter and 1) a research plan, 2) statement about their past, present, and future contributions to promoting equity, inclusion, and diversity in their professional career, 3) a curriculum vitae, and 4) the names and contact information of at least three references. The research plan does not require a defined faculty sponsor but should include short- and long-term research interests so that a potential mentor can be identified. Questions about this position can be sent to Alexander Shingleton (ashingle@uic.edu) or Miquel Gonzalez-Meler (mmeler@uic.edu). Review of applications will begin 1/16/2022 and will continue until the position is filled.

Final authorization of the position is subject to availability of funding.

The University of Illinois at Chicago is an affirmative action, equal opportunity employer, dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment. We strongly encourage applications from women, minorities, individuals with disabilities and covered veterans. The University of Illinois may conduct background checks on all job candidates upon acceptance of a contingent offer. Background checks will be performed in compliance with the Fair Credit Reporting Act.

The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit <https://www.hr.uillinois.edu/cms/-One.aspx?portalId=4292&pageId=1411899> Jacquelyn DeLaurentis Human Resource Associate Department of

Biological Sciences P: (312)996-2213 F: (312)413-3277
 E: jdelaur@uic.edu W: bios.uic.edu 845 W Taylor St.
 3238 SES, MC 066

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UKonstanz FishEvolutionaryBiology

Postdoctoral Position in Evolutionary Biology and Genomics

A postdoctoral position working in the Evolutionary Biology group in the Department of Biology at the University of Konstanz is available immediately.

We are seeking a postdoc to work on the evolution and genetic basis of behavioral, trophic, and life-history traits in fishes, with an emphasis on cichlids and poeciliids. The possible research projects will be focused on the use of experimental approaches combined with genomic data from wild and laboratory populations of fish. The research can make use of previously sequenced genomic data-sets and the assembly of new genomes, as well as the generation of population and quantitative genomic data and other “-omics” datasets for the focal species.

The funding period will be for two (possibly 3) years. Salary will be based on the German salary scheme TV-L E13 (annual before-tax salary is about 68,000 Euros).

The Evolutionary Biology group in Konstanz is composed of ~20 postdocs, graduate students and technicians. The collaborative research environment in the lab is highly integrative, very international, and operates in English. Further information on research in the Evolutionary Biology group can be obtained here: <http://www.evolutionsbiologie-uni-konstanz.com/>. Konstanz is a beautiful and pleasant place to live, located on the shore of the third largest lake in Central Europe at the foothills of the Alps. The University of Konstanz is an equal opportunity employer and is rated as one of the best universities in Germany.

Requirements: PhD in a relevant area of study (e.g., Biology, Bioinformatics), proficiency in spoken and written English, as the working language of the lab is English.

Skills we would like you to have: proficiency with one

or more programming languages (e.g., Python, Perl, R), understanding of population and quantitative genetics, and at least three peer-reviewed publications. Knowledge of molecular techniques, previous experience working with fish and/or with fieldwork, and familiarity with high-throughput sequencing analyses are all beneficial.

Applications should be sent to Ryan Greenway - ryan.greenway@uni-konstanz.de - and include (1) a cover letter explaining your background and motivation, (2) a CV, and (3) contact details of two references.

Applications will be reviewed starting Dec. 17th - starting dates are ASAP.

Ryan Greenway <ryan.greenway@uni-konstanz.de>

“Greenway, Ryan” <Ryan.Greenway@eawag.ch>

ULausanne AntPopulationGenomics

University of Lausanne: Postdoctoral position in ant population genomics

A Postdoctoral position is available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The group studies social evolution. We are currently investigating the origin, evolution, and mechanisms of action of a supergene controlling social organization across *Formica* ants (see <http://www.unil.ch/dee/page7000.html>). Recent research showed that some species have three supergene haplotypes. *F. selysi* and *F. cinerea* commonly hybridize, raising the possibility of supergene introgression. The postdoctoral researcher will generate and analyse population genomics data to uncover key processes governing supergene evolution, including selection, genetic load, drive and introgression. This project will shed light on how supergenes arise, spread and shape complex alternative phenotypes.

Your responsibilities: You will study the evolution of a social supergene. This will involve field sampling of multiple ant species, population analyses (e.g. sex-ratio, male production), sequencing, population genomic and comparative genomic analyses. Depending on your personal interests and skills, projects on genome evolution, molecular evolution, behavioural genetics and ecological genomics are also possible.

Your qualifications: We are seeking to recruit an early career post-doctoral researcher with a PhD degree in

evolutionary biology, genetics, genomics, bioinformatics or related fields. The ideal candidate should have skills and experience in one or more of the following fields: population biology, population genetics, comparative genomics, ecological genomics, molecular evolution. The candidate should have a convincing publication track-record, excellent inter-personal skills and a strong ability to work in a team.

Job information: Expected start date in position: 01.03.2022 (or at earliest convenience) Contract length: 1 year, renewable depending on funding available Activity rate: 100% Workplace: Lausanne - Dorigny

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. The working language in the group and in the Department is English for all scientific matters. Good command of English is needed, some knowledge of French would be a plus, but is not mandatory. The University of Lausanne offers state-of-the-art facilities, including excellent computer facilities and molecular labs.

Contact for further information: Prof. Michel Chapuisat: Michel.Chapuisat@unil.ch

Your application: Deadline: 15.01.2022. Incoming applications will continue to be considered until the position is filled. To apply, please upload a single pdf document containing: a cover letter with a short description of your research interests, research experience, and why you are interested in joining our group; Your CV; The contact details of 2-3 referees; A copy of your PhD degree. Ideally, you should have received your PhD within the last 2 years or be about to obtain it in the next four months.

To receive full consideration, application documents should be uploaded online through the University of Lausanne recruitment platform. Please apply through this webpage: <https://bit.ly/3pDXMs1> michel.chapuisat@unil.ch

ULethbridge SeabirdPopulationGenomics

North Pacific Seabird Genomics-Postdoc

I am looking for a postdoc to join my team at the University of Lethbridge to work on population genomics in North Pacific seabirds. The project involves analyzing whole genome sequencing data from multiple seabird species to examine population structure and evidence of adaptation. Candidates require a background in genomics and bioinformatics. Ideally the successful candidate would start in March 2022, but start date is flexible. The position is for one year with possibility of renewal.

The University of Lethbridge is situated in southern Alberta about 2 hours south of Calgary. Lethbridge is a medium sized city with about 100,000 people and located close to the Rocky Mountains.

Interested applicants can email their CV to theresa.burg@uleth.ca. Please contact me if you have any questions.

Theresa Burg Biology University of Lethbridge

“Burg, Theresa” <theresa.burg@uleth.ca>

UMinnesota ClimateChangeEvolution

Postdoctoral position in response to climate change in prairie plants

We seek a postdoctoral research scientist to join us in ongoing research investigating the evolutionary and ecological responses of plants and their microbial symbionts to climate change. A core component of the project, now in its eighth year, is a sizable experiment investigating the geographic scale of local adaptation for six species native to the tallgrass prairie of MN. The postdoc investigator will have the opportunity to analyze the data from this experiment, and to use collections of source identified seeds and microbial strains to address research questions arising from their own interests. Opportunities also exist for developing conservation and public-private collaborations aimed at increasing the supply of local-sourced seed and microbes for prairie restoration. The successful applicant will have evolutionary and ecological statistical analytical expertise and a publication record demonstrating the ability to carry out research from idea generation to publication. Two years of postdoctoral research support is available through a grant from the State of MN. The postdoctoral researcher will join a team of plant and microbial biology investigators (Professor Ruth Shaw; Professor Georgiana

May, UMN, PhD students Cedric Ndinga-Muniania and Wes Braker). Applicants should direct questions to Dr. Ruth Shaw (shawx016@umn.edu) or Dr. Georgiana May (gmay@umn.edu). Applications should include a letter expressing their interests and background in the research area, as well as a current CV. Applications are made at <https://humanresources.umn.edu/jobs> for Job ID 344881.

Georgiana May <gmay@umn.edu>

UMissouri StLouis SpeciationPollination

In an effort to expand the applicant pool for this position, I am changing the deadline to 'open until filled', with a flexible start date. Please let me know if you plan to apply or have any questions! muchhalan@umsl.edu

Postdoctoral Researcher in Plant Speciation & Pollination

I am looking for a postdoctoral researcher to join my lab at the University of Missouri - St. Louis. The NSF-funded project involves studying pollination and diversification of the Neotropical genus *Burmeistera* (Campanulaceae), including the roles of various isolating barriers and introgression in the formation of new species. Candidates should have interests and prior experience with pollination biology, speciation, and/or plant molecular phylogenetics (preferably including bioinformatics analysis of next-gen data). Successful applicants will also be encouraged to carry out his or her own research projects related to work done in the Muchhala Lab (see www.umsl.edu/~muchhalan). The target start date is flexible, with funding available for up to two years given satisfactory progress.

St. Louis is a vibrant Midwestern city that boasts an exceptional quality of life, combining a low cost of living with a variety of cultural attractions including parks, museums, and lively music and art scenes. The University of Missouri - St. Louis has strong local ties with the Missouri Botanical Garden, the Saint Louis Zoo, Washington University, St. Louis University, and the Donald Danforth Plant Science Center, and annual retreats (sleec.weebly.com) bring together ecologists and evolutionary biologists from these and other local institutions. The Department also houses the Whitney R. Harris World Ecology Center, established to promote international research, particularly in tropical regions.

Review of applications continue until the position is filled. Informal inquiries are welcome: muchhalan@umsl.edu. Submission online here < https://erecruit.umssystem.edu/-psp/tamext/STLOU/HRMS/c/-HRS_HRAM_FL.HRS.CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&SiteId=-11&FOCUS=Applicant&SiteId=11&JobOpeningId=-39162&PostingSeq=1 > (Job ID # 39162). Applicants must combine application materials, including 1) a short statement (one to two pages) on previous experience, research interest, and motivation for applying, and 2) a curriculum vitae, into a single PDF or Microsoft Word document and upload as a resume attachment. Additionally, have three recommendation letters sent to muchhalan@umsl.edu. For questions about how to apply, please call (314) 516-5258, or if you are experiencing technical problems, please email pshrsupport@umssystem.edu.

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Nathan Muchhala, Ph.D.

Associate Professor Department of Biology University of Missouri -St Louis One University Blvd, R428 Research Hall St Louis, Missouri 63121 (314) 516-6672 <http://www.umsl.edu/~muchhalan/> "Muchhala, Nathan" <muchhalan@umsl.edu>

UMuenster BehaviouralEvolution

The Institute for Evolution and Biodiversity at the University of Münster, Germany, is seeking to fill the position of a

Postdoctoral Research Associate? Wissenschaftliche/r Mitarbeiter/in (salary level TV-L E 13, 100%)? from the earliest possible date. The position is within the externally funded project SFB/TRR 212. We are offering a fixed-term full-time position until 31 December 2025 corresponding to the duration of the project. Your tasks? The position is part of the Collaborative Research Centre (SFB/TRR 212) entitled ?A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NCHttps://www.uni-bielefeld.de/-fakultaeten/biologie/forschung/verbuende/sfb_nc3/3)? The project focuses on the genetic, epigenetic and transcriptomic basis of social niche construction during colony founding. Individual Pogonomyrmex californicus

ant queens can choose to start a new colony alone (haplometrosis) or they can join or accept other co-founding queens (pleometrosis). During the first two weeks of colony founding, co-founding queens interact in multiple ways and so construct their individualized social niche. They either accept additional queens or they evict/kill them. Matched interactions, where pleometrotic queens interact with each other, lead to a fitness gain whereas mismatched interactions, where haplometrotic and pleometrotic queens interact, lead to a fitness loss (for one or both). The frequency of these alternative founding strategies varies within and among subpopulations. The first funding period revealed the genomic and genetic architecture of this social niche polymorphism. In the second funding period, we will focus on three aims.

1. Confirming and experimentally testing candidate genes and epigenetic mechanisms (histone modification and DNA methylation), that we identified in the first funding period.
2. Develop a generalized evolutionary framework/model that takes into account the relation between genotype, phenotype, individualized social niche and fitness.
3. Understand why colony founding above a certain number of cofounding pleometrotic queens will always fail. Is this a constraint (division of labour) or an adaptation (spitefulness) in the context of the evolution of pleometrosis.

The successful candidate will conduct behavioural field and laboratory studies in cooperation with Prof Jennifer Fewell (Arizona State University) in Arizona and California. The secondary emphasis will be on transcriptomic, genomic and epigenetic studies using a variety of methods (dsRNAi, ATAC-seq, ChIP-seq?

and pharmacological interventions). Hence practical familiarity and experience with some genomic techniques and bioinformatic tools is required (ideally demonstrated through publications).

Our expectations: The successful candidate will be a highly motivated scientist, interested in interdisciplinary work in the framework of the NC3 network. They will have a doctoral degree (or a comparable qualification) in biology, preferentially with a focus on evolution, behavioural ecology, sociobiology, genomics, epigenetics or another related field. They will also have a background, and ideally some postdoctoral experience, in at least two of the following areas: working with live insects, molecular lab skills, genomics/transcriptomics and bioinformatics. They will have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement. German

language skills are not a requirement, but a willingness to learn is desirable.

Advantages for you: The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution. As a part of the Collaborative Research Centre SFB/TRR 212 the project will involve intensive collaboration with consortium partners at the Universities of Münster and Bielefeld.

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

The University of Münster is committed to employing more staff with disabilities. Candidates with recognised severe disabilities who have equivalent qualifications are given preference in hiring decisions, although some restrictions related to the access to field sites may apply.

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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>

UMuenster EvolutionaryEcology

The Institute for Evolution and Biodiversity at the University of Münster, Germany, is seeking to fill the position of a

Postdoctoral Research Associate Wissenschaftliche*r Mitarbeiter*in (salary level TV-L E 13, 100%)

The preferred starting date is March 2022 or at the earliest possible date. We offer a fixed-term full-time position for four years.

The project aims to investigate how niche choice affects the evolutionary process of insecticide resistance and gut microbiota in Colorado potato beetles (*Lepidotarsa decemlineata*, CPB), using an integrative

approach that involves experimental evolution, trait manipulation, metagenomics and individual-based modelling. As a part of the Collaborative Research Centre SFB/TRR 212 (https://www.uni-bielefeld.de/fakultaeten/biologie/forschung/verbuende/sfb_nc3/), the project will involve intensive collaboration with consortium partners at the Universities of Münster and Bielefeld. The project will be carried out at the University of Mainz.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or equivalent thereof, in biology, evolutionary ecology and evolutionary genomics. The candidate is expected to design, conduct and organize a large experimental evolution experiment and analyse large amount of genomic data with high degree of independence. Thus, a background in evolutionary genetics is required. Applicants must demonstrate experience in statistics and experimental evolution. Experience with plant-insect interactions, insect evolutionary ecology and molecular genetics is a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English are expected. Good knowledge in German is a plus.

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Applications must be in English and include:

- (1) a motivation letter stating the research interests with reference to the stated requirements in no more than 2 pages,
- (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience,
- (3) an abstract of the PhD thesis,
- and (4) contact details of at least two referees.

Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-muenster.de) with a subject line "NC3 Postdoc Position - Your Name". The application review will commence on 31st December 2021. The position will remain open until filled.

Prof. Dr. Shuqing Xu Institute for Evolution and Biodi-

versity University of Münster Hfferstraße 1 D-48149 Münster E-mail: shuqing.xu@uni-muenster.de
Phone: +49 251 83-21090

Shuqing Xu <shuqing.xu@uni-muenster.de>

UMuenster FlourBeetleEvolution

NEW DEADLINE: January 13, 2022

The Institute for Evolution and Biodiversity at the University of Münster, Germany, is seeking to fill the position of a

Postdoctoral Research Associate

(salary level TV-L E 13, 100%)

from the earliest possible date. The position is within the externally funded project SFB/TRR 212. We are offering a fixed-term full-time position until 31 December 2025 corresponding to the duration of the project.

Your tasks:

The position is part of the Collaborative Research Centre (SFB/TRR 212) entitled: A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3), by the German Research Foundation (DFG).

This project focuses on individualised niches in the red flour beetle *Tribolium castaneum*, an upcoming and genetically tractable insect model species. Flour beetles modify the microbial community of their environment (the flour), which is mediated by chemical secretions from the beetles. The successful candidate will be involved in an ongoing project that aims to experimentally study, if and how the processes of niche construction and evolutionary capacitance facilitate evolutionary adaptation. It involves testing the hypotheses that (1) chemical communication via CHC profiles provides the basis for the transfer of individual experience into a group of beetles; (2) epigenetic processes contribute to the rapid adaptation facilitated by niche construction and evolutionary capacitance; and (3) rapid adaptation to new temporal niches is facilitated by evolutionary capacitance.

The successful candidate will draw on an ongoing experimental evolution study and existing beetle lines to identify the genetic and epigenetic underpinnings of evolved phenotypes, and study the chemical ecology of beetle communication and biological rhythms of bee-

ties in relation to cryptic genetic variation that may facilitate temporal niche adaptation.

Our expectations:

The successful candidate will be a highly motivated scientist, interested in interdisciplinary work. They will have a doctoral degree (or a comparable qualification) in biology, preferentially with a focus on evolution, behaviour, ecology, genomics or related fields. They will also have a background, and ideally some postdoctoral experience, in at least one of the following areas: practical insect work, molecular skills, genomics and bioinformatics, as well as a good understanding of statistics. They will also have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement. German language skills are not a requirement, but a willingness to learn is desirable.

Advantages for you:

The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution. As a part of the Collaborative Research Centre SFB/TRR 212 (https://www.uni-bielefeld.de/fakultaeten/biologie/-forschung/verbuende/sfb_nc3/), the project will involve intensive collaboration with consortium partners at the Universities of Muenster and Bielefeld. The town of Muenster itself has many students and presents a dynamic environment with many cultural and social events throughout the year (<http://www.muenster.de/en/>).

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Are you interested?

Then we look forward to receiving your application, written in English, in one single pdf file, by 15 December 2021. Applications should be sent to Prof Joachim

Kurtz at: Joachim.Kurtz@uni-muenster.de. Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about research experience and publications, and 3) contact details for at least two referees.

Prof. Dr. Joachim Kurtz

University of Muenster Institute for Evolution and Biodiversity Animal Evolutionary Ecology Group Huefferstr. 1, 48149 Muenster, Germany

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UMuenster FlourBeetleNicheEvolution

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Advantages for you:

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“Kurtz, Joachim” <joachim.kurtz@uni-muenster.de>

UOxford 2 BioinformaticsStatGenetics

Bioinformatician

Wilson evoldir@evol.mcmaster.ca Big Data Institute <<https://www.bdi.ox.ac.uk>>, Nuffield Department of Population Health, University of Oxford

Applications to be received by 12.00 noon UK time on 7th January 2022. Wilson Group <<http://www.danielwilson.me.uk>> (Infectious Disease Genomics) Grade 7: pounds 33,309 - pounds 40,927 p.a.

Oxford Population Health (Nuffield Department of Population Health) contains world renowned population health research groups and provides an excellent environment for multi-disciplinary research and teaching. Oxford Population Health, a key partner in the Big Data Institute (BDI), contains world-renowned population health research groups and is an excellent environment for multi-disciplinary teaching and research.

As a Bioinformatician will provide bioinformatics expertise to computationally intensive analyses including genome-wide association studies and RNAseq-based studies of differential gene expression, as well as contributing to informatics projects as part of a wider collaboration with national biomedical cohorts. You will also contribute to manuscripts and presentations

and attend scientific seminars and meetings.

To be considered you will have a degree in relevant subject and either a post-graduate degree in Bioinformatics, Statistics, Computing, Quantitative Biology or a related subject or equivalent experience in industry. You will also have demonstrable experience, ability and practical success in bioinformatics and proficiency in relevant programming languages and bioinformatics tools.

The position is full time (part time considered) and fixed-term for 3 years.

To apply or for more details:
https://my.corehr.com/pls/uoxrecruit/-erq_jobspec_version_4_display_form?p_company=10&p_internal_external=E&p_display_in_irish=N&p_process_type=&p_applicant_no=&p_form_profile_detail=&p_display_apply_ind=Y&p_refresh_search=Y&p_recruitment_id=4255

Associate Professor Daniel Wilson Big Data Institute Robertson Fellow, Nuffield Dept. Population Health Director of Studies in Data Science, Dept. for Continuing Education Fellow, St. Cross College University of Oxford Web: www.danielwilson.me.uk Wilson Group < <http://www.danielwilson.me.uk> > (Infectious Disease Genomics)

Senior Postdoctoral Statistical Geneticist

Wilson Group < <http://www.danielwilson.me.uk> > (Infectious Disease Genomics) Big Data Institute < <https://www.bdi.ox.ac.uk> >, Nuffield Department of Population Health, University of Oxford

Applications to be received by 12.00 noon UK time on 7th January 2022.

Grade 8: pounds 42,142 - pounds 50,296 p.a. (If no suitable applicant is forthcoming at Grade 8, an appointment on the Grade 7 scale [with appropriate adjustment of duties] may be considered. Grade 7: pounds 33,309 - pounds 40,927 p.a.)

Oxford Population Health (Nuffield Department of Population Health) contains world renowned population health research groups and provides an excellent environment for multi-disciplinary research and teaching. Oxford Population Health, a key partner in the Big Data Institute (BDI), contains world-renowned population health research groups and is an excellent environment for multi-disciplinary teaching and research.

As a Senior Postdoctoral Statistical Geneticist will work closely with principal investigator Associate Professor Daniel Wilson to jointly lead the implementation, design and application of new statistical tools for bacterial and human genome-wide association studies, and to lead the

biological interpretation of key findings. You develop novel methodologies for analysis and data collection, take the lead in the production of scientific reports and publications and supervise junior group members.

To be considered you will have a PhD and post-doctoral experience in a relevant subject, with direct experience in statistical genetics, demonstrable expertise and knowledge of the statistical genetics literature or a closely related, relevant discipline and a publication record as first author, in statistical genetics.

The position is full time (part time considered) and fixed-term for 3 years.

To apply or for more details:

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UPorto CIBIO BirdEvolutionaryGenomics

The Evolutionary Genetics and Genomics group at BIOPOLIS/CIBIO-InBio is currently hiring a postdoc researcher in evolutionary and functional genomics to work on the genomics of colouration in birds. This position is open in the context of a European Research Council Consolidator Grant for project “The Genetic, Cellular, and Photonic Mechanisms of Avian Structural Colouration”. This project seeks to decipher the genetic and cellular basis of structural colours in birds, using an innovative approach that merges techniques and expertise in the fields of genetics and genomics, cell and molecular biology, and photonics. The successful candidate will work collaboratively with members of the EVOLGEN group and directly with the group leader Miguel Carneiro (<https://scholar.google.pt/citations?user=onCfzJ4AAAAAJ>).

EVOLGEN brings together researchers broadly interested in evolutionary change and in the genetic determinants underlying the immense biological diversity in nature. Our ultimate goal is to map phenotypic variation to the gene level. Equipped with this information we aim to shed light on the mutational mechanisms explaining simple and complex trait variation, therefore contributing to answer questions of general interest in

biology associated with multiple evolutionary processes, such as speciation, sexual selection, adaptation, or domestication. Our research integrates population genetics and genomics to study genome-wide patterns of genetic variation in both natural and domesticated populations, together with genetic crosses and a diverse array of molecular biology, physiology, and functional genomic tools for experimental validation of the main findings and to compellingly map genotype onto phenotype.

— General requirements:

- Strong experience in the analysis of genomic datasets: preference will be given to candidates that have experience with analysis of whole- genome sequencing, RNA-sequencing, single cell omics, among other functional genomic tools - An interest and prior experience in evolutionary biology and related areas - Excellent verbal and written communication skills in English - Good communication and teamwork skills - Prior experience in animal coloration and phenotype-genotype studies will be valued, although not required

— Further details:

Position: Postdoc researcher Institution: BIOPOLIS/CIBIO-InBIO, Portugal (<https://cibio.up.pt/en/>) Research group: EVOLGEN (<https://cibio.up.pt/en/groups/evolutionary-genetics-and-genomics-evolgen/>) Deadline for applications: January 5th 2022 Inquiries to: Miguel Carneiro (miguel.carneiro@cibio.up.pt) Full details on job posting: <https://www.cibio.pt/?p=1866>

Pedro Andrade <pandrade@cibio.up.pt>

jvb.). We aim to develop an integrative approach to camouflage (combining fields such as: ecophysiology, behavioral and community ecology, genomics, remote sensing). The successful candidate is expected to join ongoing investigations and to develop their research integrating multiple fields. We are flexible concerning detailed aspects of the candidate's interests.

The candidate must hold a PhD (in biology or related fields) and send (before January 20th) a short (1) letter of interest, (2) CV and (3) list of publications (all integrated into one pdf file) to the address below, from where further inquiries can be requested.

Zbyszek Boratyński, boratyns@cibio.up.pt.

Selected references: Boratyński Z, Brito JC, Campos JC, Cunha JL, Granjon L, Mappes T, Ndiaye A, Rzebiak-Kowalska B, Serén N. 2017. Repeated evolution of camouflage in speciose desert rodents. *Scientific Reports*, 7:3522. Doi: [10.1038/s41598-017-03444-y](https://doi.org/10.1038/s41598-017-03444-y)

Nokelainen O, Brito JC, Scott-Samuel N, Valkonen J, Boratyński Z. 2020. Camouflage accuracy in Sahara-Sahel desert rodents. *Journal of Animal Ecology*, 89(7), 1658-1669. Doi: [10.1111/1365-2656.13225](https://doi.org/10.1111/1365-2656.13225)

Fennell, J. G., Talas, L., Baddeley, R. J., Cuthill, I. C., & Scott-Samuel, N. E. (2021). The Camouflage Machine: Optimizing protective coloration using deep learning with genetic algorithms. *Evolution*, 75(3), 614-624. Doi: [10.1111/evo.14162](https://doi.org/10.1111/evo.14162)

Zbyszek Boratyński <boratyns@gmail.com>

Zbyszek Boratyński <boratyns@gmail.com>

UPorto-CIBIO CamouflageDesertMammals

We are looking for an enthusiastic researcher to apply to work with our team (<https://boratyns.wixsite.com/zbyszek>). The selected candidate will apply with the team for the independent Junior Researcher position within the Portuguese Foundation for Science and Technology (<https://www.fct.pt/>: Calls/Scientific Employment: 1. Scientific Employment Stimulus - Individual Call). The timeline for the application is: January-February 2022 and position to start within a year from that date.

We work mainly, but not only, on Sahara-Sahel rodents as a suitable model system to investigate variable aspects of animal adaptations (e.g.: <https://doi.org/10.25225/>

UppsalaU PlantGeneticsGenomics

Position for one Postdoc in Ecological Plant Genetics/Genomics at the Evolutionary Biology Centre, Uppsala University, Sweden

We seek a Postdoc to join a project examining the genetic and ecological mechanisms behind adaptive population differentiation in plants, and the capacity for adaptive evolution in natural populations of the plant model organism *Arabidopsis thaliana* in response to environmental change. The research will be conducted within the framework of an international research collaboration. The goals are to identify QTL (quantitative trait loci) contributing to local adaptation and to key traits involved in adaptation, to characterize the effects, genetic basis and geographic distribution of QTL alle-

les, and to examine whether adaptive evolution in local populations is constrained by trade-offs and pleiotropy, and/or the fixation of deleterious mutations. One focus will be on the genetic basis and adaptive significance of variation in flowering time. Duties include the establishment and monitoring of experiments in the field and under controlled conditions in the lab, QTL-mapping, data analysis, and the preparation of manuscripts for publication. Specific subprojects can be tailored to the skills and interests of the successful candidate.

We are looking for a candidate with a keen interest in population genetics, genomics, QTL-mapping, evolutionary ecology and/or ecophysiology. Proficiency in English is a requirement.

The successful postdoc candidate should have a PhD completed within 3 years of the application deadline (reasons such as prolonged periods of illness and parental leave can motivate a longer period). The postdoc position lasts for two years.

Deadline for application is 1 February 2022.

Please find the announcement, with all information about how to apply, at:

<https://www.uu.se/en/about-uu/join-us/details/?positionId=458104> For informal enquiries, please contact prof Jon Agren, jon.agren@ebc.uu.se, +46-70-643 6364.

Jon Agren Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-756 32 Uppsala Sweden

När du har kontakt med oss 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> Jon Agren <jon.agren@ebc.uu.se> Jon Agren <jon.agren@ebc.uu.se>

URennes SingleCellBioinformatics

Two years contract Post-doctoral researcher OR research engineer in bioinformatics processing of genomics and transcriptomics data from single-cell

Scientific context As part of the ANR Labcom Mi-

croscale, the UMR 6553 ECOBIO and the company Cellenion are developing the analysis of single bacterial cells ("single cell"). As a whole, this project aims to set up new research on the isolation and genomic and transcriptomic analysis of single bacterial cells, as well as to develop kits for the preparation and processing of biological material and bioinformatic tools for a commercial valuation of the results. In this context, the recruited person will have to take charge of the bioinformatics component of the project and develop digital pipelines for the analysis of the sequencing data generated. These tools constitute an essential resource for the project and aim to facilitate the interpretation of the large datasets obtained, opening the "single cell" microbiota approach to a large audience with little experience in terms of bioinformatics analysis.

Main activity - Bioinformatic analysis (curation, assembly, annotation) of sequencing data of genomes and transcriptomes of single microbial cells ("single cell") - Develop an automatable solution for processing and using data from the "single cell" sequencing of microorganisms - Set up an automated pipeline - Provide methodological advice and technical assistance for handling, analyzing, sharing and saving sequencing data

Associated activities - Perform presentations and training to ensure the transfer of knowledge and skills to users - Ensure and update the documentation, maintenance and publication of the methods and tools developed

Knowledge (all or parts) - Methods and tools for mapping and assembling genomes and transcriptomes - Methods and tools for curating and annotating sequences - Databases (genes, genomes, proteins, metabolic pathways, etc.) - Programming languages: perl, python or java, - Data format of genome and transcriptome sequences, alignments and annotation - Tools and methods for the graphic representation of the results - Virtualization tools (Docker) and management of distribution packages and environments (Conda), Galaxy pipeline or equivalent - Knowledge of microbion genomics and sequencing methods

Operational skills (all or parts) - Identify and evaluate relevant bioinformatics tools for data analysis. - Install and use bioinformatics tools in different IT environments (computing cluster, Galaxy server, virtualized environments) - Design and develop scripts to handle large volumes of sequencing data - Integrate bioinformatics tools into configurable, reproducible and automatable pipelines and workflows - Make bioinformatic tools available on development platforms and data produced in databases - Write documentation for users, impart knowledge and use presentation techniques - Carry out a watch in the field of activity - Facilitate a meeting

Skills - Autonomy, sense of organization and availability
- Rigor, reliability - The ability to work in a team

Applications Send your application with CV cover letter and letter(s) of recommendation to Cécile Monard cecile.monard@univ-rennes1.fr and to Philippe Vandenkoornhuysen

philippe.vandenkoornhuysen@univ-rennes1.fr before January 24th, 2022.

Philippe Vandenkoornhuysen
<philippe.vandenkoornhuysen@univ-rennes1.fr>

[evolutionary-biology/index.html](https://www.rochester.edu/evolutionary-biology/index.html)), with strengths in evolutionary genetics and genomics.

Applications should include a cover letter with a short description of research interests and accomplishments (<1 page), a CV, and names and email addresses of three references. Please email these materials to Jennifer.Brisson@rochester.edu with "Postdoc application" in the subject line. Screening begins immediately and continues until a suitable candidate is found. Informal inquiries should be sent to Jenn Brisson at Jennifer.Brisson@rochester.edu.

"Brisson, Jennifer" <jbrisso3@UR.Rochester.edu>

URochester AphidEvoDevo

Postdoctoral position in aphid evo-devo at the University of Rochester

A postdoc position is available in Jenn Brisson's lab in the Department of Biology at the University of Rochester. Our lab is broadly interested in the evolution of morphology. We use interdisciplinary approaches, incorporating ideas and methods from evolutionary biology, developmental genetics, physiology, and bioinformatics. We're looking for someone to join an NIH-funded project investigating the molecular mechanisms underlying the control of the male wing dimorphism in pea aphids. Optimally, the candidate will have some experience with gene expression and/or knockdown studies (e.g., RNA-Seq, qRT-PCR, in situ hybridization, RNAi, Crispr/Cas9 gene editing) and some bioinformatics experience. The postdoc will be expected to coordinate and conduct independent research, mentor undergraduate students, and write up results for publication. Additionally, the successful applicant will have the opportunity to develop activities relevant for their career goals, such as independent research directions and community outreach or teaching endeavors. The Brisson lab environment is friendly and collaborative, with a focus on mentorship and doing good science.

Appointment for this position will initially be for 12 months, with renewal for up to five years total, contingent on sufficient progress. The position is funded by a new, five-year NIGMS R35 award. The start date is flexible. Salary is commensurate with experience, and benefits are included.

More information about the lab can be found at brissonlab.org. The lab is part of the "E2G2" group in the Department of Biology (<https://www.sas.rochester.edu/bio/people/faculty/ecology->

USouthCarolina PlantEvolutionaryGenomics

The Wessinger lab in the Department of Biological Sciences at the University of South Carolina is recruiting a postdoctoral researcher with expertise in population genetics and genomics to work on the plant evolutionary genomics (of penstemons). Penstemon shows a striking pattern of repeated adaptive evolution in complex floral syndrome reflecting adaptive shifts from ancestral bee pollination to hummingbird pollination. We are using an evolutionary genetic approach to understand how and why these shifts have occurred so many times in this lineage. We have recently received support from NSF and NIH to further these research goals. For more information about our lab's research, see our website: <https://wessingerlab.github.io/research.html> This postdoc will lead projects investigating the potential role of introgression in generating patterns of parallel floral evolution using whole genome resequencing data. In addition, they will develop creative new research directions focused on the population genomics of complex trait divergence, with plenty of opportunity for new independent research directions. Expertise in any or all of the following is preferred: population genetics/genomics, quantitative genetics, population genetic modeling, statistics, and/or fieldwork. This position will offer a competitive salary and flexible start date. The EEB group within the Department of Biological Sciences at U of SC is an interactive, supportive, and collaborative community with several new and growing labs. U of SC is located in beautiful Columbia, SC. Columbia is a diverse and affordable small city with a vibrant downtown, wonderful climate, and easy access to outdoor activities in the southern Appalachians and

the coast. The Wessinger lab is a collaborative research group that is committed to building a diverse research team.

To apply, please contact Carrie Wessinger by email (wessinc@mailbox.sc.edu) with a CV and a statement of interest that briefly describes your research experiences and interests, your postdoctoral training goals, and why this opportunity is a good fit to advance your goals. Feel free to also email any questions about the opportunity. Review of materials will begin on January 20.

“Wessinger, Carolyn” <WESSINC@mailbox.sc.edu>

USouthernCalifornia PopGen

The Edge Lab (<https://edgepopgen.github.io/edgelab/>) at the University of Southern California seeks to hire a full-time postdoctoral researcher to work on projects in computational population genetics. The postdoc will be funded by an NIH grant targeted at understanding complex traits using population-genomic tools, as well as on the intersection of population genetics and genetic privacy.

Projects in the lab will require some combination of population-genetic modeling, simulation, bioinformatics, and data analysis, and prior training in these areas is advantageous. However, successful candidates need not be proficient with all these tools when they apply.

The Edge lab is part of USC’s quantitative and computational biology department, a dynamic environment for pursuing computational biology research, including computational evolutionary biology. USC is in Los Angeles, a diverse city with appealing weather year-round. The position has a competitive salary and benefits.

The Edge lab is committed to fostering a welcoming, supportive lab environment. You can read about our lab culture and policies here (<https://edgepopgen.github.io/edgelab/culture/>).

To apply, please send an email to `edgem [at] usc [dot] edu` with the subject “postdoc application materials” including a CV and cover letter that briefly describes your research experience and interests to date, your goals for your postdoctoral training, and how you think work in the Edge lab will advance you toward your goals. Please also include a writing sample, such as a published manuscript, dissertation chapter, or manuscript preprint, and contact information for 2-3 professional references. Informal inquiries are also welcome at the

same email address. Review of applications will begin in January, and applications will be considered until the position is filled.

Doc Edge <edgem@usc.edu>

UStAndrews EvolutionaryBioinformatics

Dear All,

We have a research opportunity open at the University of St Andrews’ Centre for Biological Diversity Biodiversity (CBD), School of Biology working in the research team of Carolin Kosiol.

We are seeking a motivated and creative postdoctoral researcher for a project “PoMoSelect: Disentangling modes of selection” funded by the BBSRC. Recent sequencing of genomes of closely related species and of many individuals from the same species enables the study of speciation and the inference of the history of populations. Standard phylogenetic methods reduce entire populations to single points in genotypic space by modelling evolution as a process in which a single gene mutates along the branches of a phylogeny. The Kosiol group has developed new approaches, called polymorphism-aware phylogenetic models (PoMo, Borges et al., *Genetics* 2019, Schrempf et al., *JTB* 2016, DeMaio et al., *Syst Biol* 2015) for species tree estimation. We envisage developing new theory and software to tackle the problem of balancing selection.

You will be part of a team developing new methods that investigate the role of balancing selection. This will involve theoretical work as well as software implementation and the analysis and interpretation of high-throughput molecular and genomics data.

This post will suit a candidate who can think flexibly and implement new software. Ideally, the candidate should have solid grasp of programming languages (eg. C, C++, Java, Python, R), but a desire to extend their capabilities into new areas and methods is highly desirable and there will be many opportunities to develop specific skills. An interest in phylogenetics and population genomics is a plus.

You will have the opportunity to publish first author papers, contribute as a co-author, and present your work internally and at international conferences. You must be able to independently manage your work, meet deadlines, and prepare internal reports and draft publi-

cations. You will have good communication skills. This is an outstanding opportunity to develop your research skills, ask exciting scientific questions and drive forward novel research at the cutting edge.

Applications should include:

- (i) A cover letter expressing your interest in the position
- (ii) a current CV
- (iii) the names and contact details of three referees.

Deadline 5th January 2022

Full details are available at: <https://www.vacancies.st-andrews.ac.uk/Vacancies/W/2990/0/323722/-889/research-fellow-in-bioinformatics-ar2630sb>

Informal enquiries can be directed to Dr Carolin Kosiol, ck202@st-andrews.ac.uk or Dr Rui Borges, rui.borges@vetmeduni.ac.at

Applications are particularly welcome from women, people from the Black, Asian and Minority Ethnic (BAME) community, and other protected characteristics who are under-represented in research posts at the University.

Equality, diversity and inclusion are at the heart of the St Andrews experience. We strive to create a fair and inclusive culture demonstrated through our commitment to diversity awards (Athena Swan, Carer Positive, LGBT Charter, Race Charters and Stonewall). We celebrate diversity by promoting profiles of BAME, LGBTIQ+ staff and supporting networks including the Staff BAME Network; Staff with Disabilities Network; Staff LGBTIQ+ Network; and the Staff Parents & Carers Network.

Dr Carolin Kosiol

Centre for Biological Diversity School of Biology
University of St Andrews St Andrews, Fife KY16
9TF, UK ck202@st-andrews.ac.uk <https://synergy.st-andrews.ac.uk/genomemoleculardating/> Carolin Kosiol
<ck202@st-andrews.ac.uk>

UTennessee ModelingBiology

Postdoc Position

Mathematical Modeling of Biological Systems

University of Tennessee

Applications are currently being solicited for a talented and motivated post-doctoral research associate to work with the Fefferman Lab and NIMBioS at the University of Tennessee at Knoxville.

This position is funded by multiple grant project sources, but all are related to the mathematical modeling of biological systems. This is a perfect position for someone wanting to gain greater breadth in application area of mathematical biology and join existing teams, helping get modeling-based publications out the door.

A candidate should be comfortable with a variety of modeling techniques and willing to learn new areas of modeling application in collaboration with interdisciplinary research teams. Preference will be given to individuals with experience in building and analyzing mathematical and/or computational models of ecological, epidemiological, or organismal health systems. The researcher will be expected to help formulate models, code simulations, analyze results, take a primary role in preparing manuscripts for publication, contribute to a collaborative research group environment, and will be welcome (but not required to) participate in preparation of new grant proposals. An ideal candidate will have good organizational and interpersonal skills.

Requirements:

- * A Ph.D. (or someone soon to defend) in some pertinent field. Such fields could include, but are not limited to applied mathematics, physics, ecology, engineering, epidemiology, or computer science.
- * Research experience in applied mathematical/computational modeling
- * The ability to write clearly and scientifically (e.g. to produce drafts of papers for publication in scientific journals and web-based public outreach without too much oversight); evidence of successful prior publication is a plus
- * Ability to work/communicate with multidisciplinary teams
- * Fluency in a mathematical programming environment (preferably Matlab, but Mathematica, C, Python, R, or equivalent are also acceptable)

This person will work directly with NIMBioS Director Fefferman and will have the opportunity to participate in all activities of the Fefferman research group. The group is affiliated with the Department of Ecology and Evolutionary Biology, the Department of Mathematics, the University of Tennessee One Health Initiative, and NIMBioS; the candidate will be welcome to participate in any/all of these communities (according to their own preferences).

This is a full-time, one year position, with the potential for renewal if things work out well. Ideal start date: Feb 1st, 2022 (but this can be negotiated). Remote telecommuting is not a problem, so long as participation in virtual lab activities are not hampered by time-zone, however, anyone requiring this position to provide a work visa (J1) will be required to live locally to be in compliance with federal regulations.

If interested, please send a CV and Cover Letter to Nina Fefferman (nina.h.fefferman@gmail.com) and Chuck Price (cprice9@utk.edu).

“Price, Chuck” <cprice9@utk.edu>

stellenangebote.uni-ulm.de/jobposting/-6ca9416bb135903a5e832f3bbc8a6d3730298eec Lena Wilfert <lena.wilfert@uni-ulm.de>

UUm AnimalMicrobiome

University of Ulm, Germany

Faculty of Biology

IMPALA-Project

The IMPALA project is an interdisciplinary project studying the evolutionary ecology of ecosystem microbiomics. With a team consisting of a PostDoc and two PhD students, we will investigate how different fertilization regimes affect the evolutionary ecology of the functional microbiome of soil, plants and animals along a trophic chain in grasslands both in the field and in experimental mesocosms, paired with the development of microbiological screening tools and the functional analysis of bacteriocin-producing gene clusters. The team will be led by Profs. Simone Sommer & Lena Wilfert (vertebrate and invertebrate microbiomics), Patrick Schäfer (plant microbiomics) and Christian Riedel (applied microbiology) at the University of Ulm, Germany.

We would like to recruit a post-doc focusing on the functional microbiomes of animals in the trophic chain, i.e. the guts of soil-digesting invertebrates, herbivorous small mammals and pollinating insects (Sommer and Wilfert groups). All positions will start from the 1st of March 2022 and the project runs for three years. The positions will be based at the University of Ulm, at the Institutes of Evolutionary Ecology and Conservation Genomics; Molecular Botany; and Microbiology and Biotechnology. Ulm is a delightful historic city on the Danube in Southwestern Germany; it is one hour from the Alps, Lake Constance, Munich and Stuttgart.

For further information, please contact us at impala@uni-ulm.de. The closing date is the 23rd of January 2022.

The job advert with detailed information on profile and responsibilities, as well as the links to the online application system can be found here

Post-Doc - animal focus: < <https://stellenangebote.uni-ulm.de/jobposting/-6ca9416bb135903a5e832f3bbc8a6d3730298eec> > reference number 21155 <https://>

UVermont InsecticideResistance

Application deadline: December 15, 2021

Postdoctoral Researcher on transgenerational epigenetic inheritance of insecticide resistance

A postdoctoral position is available in the Insect Agroecology and Evolution Lab in the Department of Plant and Soil Science at the University of Vermont (UVM), led by Prof. Yolanda Chen, in collaboration with Prof. Sean Schoville at the University of Wisconsin (UW), Prof. Stephanie McKay (UVM) and Prof. Russell Groves (UW).

Summary: Agricultural insect pests show a remarkable ability to evolve resistance to insecticides. Although insecticide resistance is widely considered to be inevitable, the evolutionary processes underlying the evolution of insecticide resistance remain poorly understood. One possible explanation is that insecticide exposure may alter epigenetic modifications, which alter heritable patterns of gene expression without actually changing the underlying DNA sequence. The Colorado potato beetle (CPB), *Leptinotarsa decemlineata*, has been extraordinarily successful at adapting to all insecticide classes, including the neonicotinoid insecticide imidacloprid. We will test how beetle exposure to sublethal doses of imidacloprid can alter multigenerational and transgenerational epigenetic inheritance of insecticide tolerance.

Position Responsibilities: The postdoctoral associate will be expected to manage a multigenerational beetle breeding project, extract DNA/RNA, and analyze whole-genome bisulfite sequencing data from an experimental evolution study. This will provide training opportunities in bioinformatics analysis, genomic inheritance, and epigenetic analysis. The successful applicant will also help in the mentoring of undergraduate student projects.

Qualifications: Candidates are expected to have a Ph. D. in Evolutionary Genomics, Molecular Ecology, Genetics, Entomology, or related field. Experience in analyzing large bioinformatic datasets (reduced representation, transcriptomic, or sequencing). Desirable skills for this project include familiarity with Linux operating systems and computer programming (Python, and R). Experience in DNA/RNA extraction, running PCRs, and

optimizing protocols.

How to Apply: Funding for this position is available for two years with the possibility of an extension. To apply, please send a single pdf with a cover letter demonstrating your interest in the position, a CV, 1-2 representative publications, and contact information for three references to Dr. Yolanda Chen, (yolanda.chen@uvm.edu).

Start date is flexible but is targeted for May 1, 2021.

Diversity and Inclusion: As a research team, we encourage junior scientists from underrepresented groups to apply. University of Vermont is an equal opportunity/affirmative action employer.

For more information about our research groups, please visit: <http://labs.russell.wisc.edu/molecularecology/> - <http://blog.uvm.edu/yfanslow/> Dr. Yolanda Chen (she/her) Associate Professor Faculty Fellow - Gund Institute for the Environment Department of Plant and Soil Science University of Vermont 63 Carrigan Drive Burlington, VT 05405 Phone: (802) 656-2627 Insect Agroecology and Evolution Lab < <http://blog.uvm.edu/yfanslow/> >

Yolanda Chen <Yolanda.Chen@uvm.edu>

UVirginia EvolutionaryBiology

Rising Scholar program at UVA

The Biology Department at the University of Virginia is seeking applicants for UVA's Rising Scholar Postdoctoral Fellows Program. This program is intended to support under-represented scholars with the goal of transition to a faculty position at UVA or elsewhere. The Biology Department at UVA is a vibrant department with strengths in Evolution, Development, Neurobiology, and Behavior. Potential applicants should contact faculty in the department as potential sponsor(s) prior to applying to ensure research fit and to solicit letters of support.

The goal of the Rising Scholars program is to provide a mentored professional development opportunity to train the next generation of scholars for future tenure-track positions. Postdoctoral Fellows selected under this program will be appointed for two years (subject to annual review) and will carry out research, teaching and professional development activities directed toward securing a tenure-track position. In addition to mentoring within the de-

partment, the Fellow will join a university-wide cohort for additional career development programs and opportunities.

Teaching is an important part of preparation for a faculty position, and Rising Scholar Postdoctoral Fellows will have the opportunity to develop an independently taught course. During the two-year appointment, fellows in the Sciences will teach one independent course per year. Different types of teaching opportunities may be available, and the specific course content will be consistent with the Fellow's interests and expertise.

Applications should be complete by February 1, 2022.

See <https://graduate.as.virginia.edu/rising-scholars> for more information on the Rising Scholars Program and instructions on how to apply.

See <https://bio.as.virginia.edu> for more information on the Biology Department at UVA.

See <https://www.EEBvirginia.org> for more information about the Ecology, Evolution, and Behavior group at UVA.

Alan O. Bergland (he/him) | Assistant Professor, Department of Biology | University of Virginia PO Box 400328 | Charlottesville, VA 22904 <https://www.bergland-lab.org> | <https://www.EEBvirginia.org> | <http://bio.as.virginia.edu> | <https://dest.bio>

"Bergland, Alan Olav (aob2x)" <aob2x@virginia.edu>

"Bergland, Alan Olav (aob2x)" <aob2x@virginia.edu>

UWashington SystemsBiologyAging

<>POSITION DESCRIPTION: Postdoctoral position in systems biology of resilience and aging in *Drosophila*

A postdoctoral position is available, with flexible start date, in the Promislow lab at the University of Washington. We are looking for a postdoctoral researcher to join an effort to explore the role of biological resilience in aging, using the fruit fly as a model.

Our goal is to explore resilience as a way to understand how and why systems fail as organisms age. As individuals age, they lose resilience, with stressors forcing them into tipping points that lead to failure. Our goal is to develop tools to identify high-dimensional metabolomic and transcriptomic signatures of resilience, to explore the underlying mechanisms, and to suggest potential

approaches to prevent the loss of resilience.

We are seeking someone with a PhD in biology, genomics, computational biology, or a related field, and ideally with fruit fly experience. The ability to work extremely well in a team is essential.

RESPONSIBILITIES:

The Postdoctoral Researcher will: - Design and carry out pilot experiments under the supervision of Dr. Promislow - Coordinate the metabolomic and transcriptomic data generation and analysis. - Analyze metabolomic and transcriptomic data generated from hundreds of samples. - Write up and publish results. - Contribute to regular lab meetings and one-on-one discussions about project design and progress.

REQUIREMENTS:

PhD in biology, 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 understanding of the statistical approaches and nuances of high-dimensional data analysis - 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: - Familiarity with metabolomic and/or transcriptomic profiling - Practical understanding of the biology of aging. - Excellent mentoring skills and desire to work with undergraduates

Interested candidates should send an email with CV, a brief statement of research experience and interests, and names of three referees to Daniel Promislow at promislo@uw.edu no later than Dec 15, 2021.

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.

promislo@uw.edu

UWyoming 2 ComputationalModeling

We are seeking two additional postdoctoral researchers to join our interdisciplinary data science team of eight faculty and over 13 postdocs, spanning multiple research areas in ecology and evolutionary biology. As part of the modelscape consortium (<https://microcollaborative.atlassian.net/1/c/XKdt1uGq>), the postdoctoral researchers will work closely with one or more faculty members at the University of Wyoming: Alex Buerkle, Sarah Collins, Daniel Laughlin, Lauren Shoemaker, and Tophier Weiss-Lehman.

Dramatic increases in the scale and availability of data are profoundly reshaping all domains in the life sciences. Data acquisition and availability from DNA sequencers, environmental sensors, parallel global studies, and imagery are outpacing our capacity for analysis, including the development of models that represent our knowledge of biological processes. Research in our consortium is developing and competing computational, statistical, and machine learning methods for multi-dimensional data to create predictive and explanatory models for the life sciences. The project focuses on three research areas: (1) connecting genome to phenome (particularly in the context of evolutionary biology), (2) mechanistic modeling of species interactions and community diversity, and (3) time series of material and energy flux in aquatic ecosystems.

The positions are 100% research with flexible start dates; however, preference will be given to candidates who will be able to join the consortium immediately. The positions are for two years, with the possibility of extending the appointment, contingent upon performance.

The postdoctoral researchers will be primarily based in one or a few labs but will benefit from the opportunities to collaborate broadly. The positions allow for multiple professional development opportunities, including training in highly interdisciplinary science, collaborations across institutions, regular meetings with the entire consortium, mentorship toward academic and non-academic career development, and interactions with graduate and undergraduate students.

Successful applicants are not expected to have expertise in all facets of the project, but rather may be experts in a given domain of the life sciences or area of model-

ing. The postdoctoral researchers will primarily analyze existing and simulated data, and will have additional, complementary opportunities for laboratory or field research. We recognize that the best science can originate from diverse collaborations with people from varied backgrounds, and we especially encourage applicants from underrepresented groups to apply. The positions are supported by a 4-year, \$6 million NSF EPSCoR RII Track-2 grant in response to our proposal entitled 'Highly predictive, explanatory models to harness the life science data revolution'.

MINIMUM QUALIFICATIONS: Completion by the position start date of all requirements for a PhD in ecology, evolutionary biology, environmental science, statistics, computer science, mathematics, complex systems science, or a related field.

DESIRED QUALIFICATIONS: In the cover letter, applicants should state clearly and illustrate how their experience and interests match the following preferred qualifications. 1. Record of publishing in peer-reviewed literature 2. Excellent verbal and written communication skills 3. Experience in at least one of the following research areas: (a) connecting genome to phenome, or

other aspects of evolutionary genetics, (b) mechanistic modeling of species interactions, population dynamics, and community diversity, or (c) examining material and energy flux in aquatic ecosystems 4. Has a keen interest in developing skills in mathematical or statistical modeling to extend strong conceptual thinking and research in life sciences 5. Previous interdisciplinary and collaborative work, in addition to project leadership 6. Interest in working with a diverse team across disciplinary boundaries

REQUIRED MATERIALS: Complete the online application and submit a cover letter stating your interest in the position and previous experience as it relates to the position, including each of the preferred qualifications. Also, provide a CV, links to 1-2 recent first-authored publications, and names and contact information for three professional references. Please apply here: https://eeik.fu.us2.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1/job/212751 Alex Buerkle Department of Botany University of Wyoming Laramie, WY 82071, USA <http://www.uwyo.edu/~buerkle> buerkle@uwyo.edu

Alex Buerkle <Buerkle@uwyo.edu>

Workshops Courses

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| Online Human Population Evolutionary Genetics Dec6 | | |

Online Beginner Geometric Morphometrics Jan17-21

Dear colleagues,

Registration is open for the "Geometric Morphomet-

rics for Beginners" course organized by Transmitting Science. This course is live online.

Dates: January 17th-21st, 2022. Online live sessions from 14:00 to 19:00 (Madrid time zone).

Instructor: Jesi Marugí (Universidad Autnoma de Madrid, Spain).

Course Overview:

The world around us is a space-time mosaic where forms evolve, constantly change, and interact with each other.

Geometric morphometry is a digital morphological analysis tool that allows addressing biological key questions, such as shape transformation (variation) and the result of its interaction (covariation) with the physical environment, with an unprecedented analytical resolution.

In this course, these concepts will be explained in a simple and practical way. To do this, basic aspects such as the biological and geometric concept of landmark and semi-landmark configurations will be reviewed, the available comparative methodologies will be compared, and basic multivariate statistical methods will be put into practice that allow addressing biological problems at any scale of complexity, making special emphasis on visualization and interpretation of form variation.

This course is introductory.

More information and registration: <https://www.transmittingscience.com/-courses/geometric-morphometrics/geometric-morphometrics-for-beginners/> or writing to courses@transmittingscience.com

With best regards

Sole

– Soledad De Esteban-Trivigno, PhD. (she/her) Scientific Director www.transmittingscience.com [1]

Twitter: @soledeesteban Instagram: @soledaddeesteban Researchgate: https://www.researchgate.net/profile/Soledad_De_Esteban-Trivigno ORCID: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of

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Soledad De Esteban Trivigno
<soledad.esteban@transmittingscience.com>

Online DNABarcoding Jan17-Mar13

Introduction to DNA Barcoding

January 17 - March 13, 2022

Online

Instructor: Dr. Dirk Steinke Website: uoguelph.ca/intro-dna

Shara Shara Inotay | Manager, Program Development
Open Learning and Educational Support IUniversity
of Guelph Room010 Johnston Hall I 50 Stone Road E
IGuelph ON N1G 2W1

T: 519-824-4120 ext.52913 | E: sinotay@uoguelph.ca
| www.opened.uoguelph.ca Shara Inotay
<sinotay@uoguelph.ca>

Online EMBO Population Genomics Mar22-30

We are pleased to inform you that applications for the upcoming virtual EMBO Practical Course “Population Genomics: background and tools” are now open.

IMPORTANT DATES for this Course:

Deadline for applications: 31/01/2022

Latest notification of acceptance: 18/02/2022

Course dates: 22-30/03/2022

Registration fee waivers and child care grants available!

Full details, including the course programme, invited speakers and the application form, at: <https://meetings.embo.org/event/22-pop-genomics> In this EMBO Practical Course, participants will learn fundamental concepts, advanced approaches and programming skills to reconstruct the demographic history of populations and infer natural selection, using both classic and machine learning-based techniques. Keynote lectures focused on major achievements and future perspectives of population genomics will complement the training. Lectures and practicals will be delivered by experienced outstanding and inspiring speakers. We expect participants to become fully confident in running analyses on their own after attending the course. This course aims at evolutionary biologists who already have basic bioinformatics skills. Good knowledge of R is a pre-requisite and knowledge of Python is a plus. Ph.D. students and Postdoc researchers will benefit the most out of this course, but applications from all candidates will be evaluated in their context.

Chiara Batini, University of Leicester, UK
Vincenza Colonna, Consiglio Nazionale delle Ricerche, It
Andrea Manica, University of Cambridge, UK

“Batini, Chiara (Dr.)” <cb334@leicester.ac.uk>

Online Evolutionary Biogeography March 7-11

Dear colleagues,

Registration is open for the Transmitting Science course “Model-Based Statistical Inference in Evolutionary Biogeography”.

Dates and Schedule: March 7th-11th, 2022

Monday to Friday (Madrid time zone): 08:00 am to 12:00 am (online live lessons). The rest of the time will be taught through assignments, to be done between the live sessions.

Instructor: Nick Matzke (University of Auckland, New Zealand) and Wallis Bland (University of Auckland, New Zealand)

Preliminary program

* Intro to R and phylogenies * How to read and use phylogenies * A short history of historical biogeography methods and assumptions * Likelihood-based statistical model choice * Phylogenetic biogeography * New probabilistic models for historical biogeography in BioGeoBEARS. * Using BioGeoBEARS and interpreting results. * Biogeographical stochastic mapping. * Including geographical and environmental distance in models. * Integrating biogeography with traits – trait-dependent dispersal * Running analyses over multiPhylo objects (posterior distribution) and interpreting results. * State-dependent Speciation/Extinction models (SSE) basics in R * State-dependent Speciation/Extinction models (SSE) for large biogeography problems in Julia * Integrating GIS & paleogeography data (e.g. Gplates) * Help session for student projects. * Wrap-up.

More information and registration: <https://www.transmittingscience.com/courses/evolution/-model-based-statistical-inference-evolutionary-biogeography-2/> With best regards

Sole

– Soledad De Esteban-Trivigno, Ph.D. (she/her) Scientific Director www.transmittingscience.com [1]

Twitter: @soledeesteban Instagram: @soledaddeesteban Researchgate: https://www.researchgate.net/profile/Soledad_De_Esteban-Trivigno ORCID: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipi-

ent, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

Links:

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<soledad.esteban@transmittingscience.com>

Online GenomicPrediction Feb7-11

Dear all, we have the last 4 seats left on the Physalia course “Genome-wide prediction of complex traits in humans, plants and animals”: (<https://www.physalia-courses.org/courses-workshops/course49b/>) The course will be held online in February, 7th-11th. This course will introduce students, researchers and professionals to the steps needed to acquire expertise in the genomic prediction area applied to animals, plants and humans. We will start by introducing general concepts of Quantitative Genetics and mixed model theory, progressively describing all steps and putting there seamlessly together in a general workflow. The full list of our online courses can be found here: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us: (<mailto:info@physalia-courses.org>)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online GeometricMorphometrics Apr4-8

Dear all,

registrations are now open for the 5th edition of the Geometric Morphometrics course with Dr. Carmelo Fruciano (CNR, Italy).

Dates and time: ONLINE, 4-8 April (1-8 pm Berlin time).

This course covers the main common practices of modern geometric morphometrics, including acquiring data, analysing it, visualizing and interpreting the results.

This course is aimed at beginners and intermediate users. In other words, it is aimed at researchers who intend to use geometric morphometrics or who have started performing geometric morphometric analyses but feel they need a more structured background.

Course website: (<https://www.physalia-courses.org/courses-workshops/course22/>)

The full list of our online courses can be found here: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us at: info@physalia-courses.org

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online HumanPopulationEvolution- aryGenetics Dec6

Dear Colleagues,

We are pleased to share with you the second edition of the MOOC Human Population and Evolutionary

Genetics of the Pasteur Institute.

This online course will start on December 6, 2021, through the FUN MOOC platform. Registration is free, with the option to take a short exam and receive a certificate for a small fee. The MOOC is recorded in English, with French subtitles. This course is also part of our Online Diploma of Infectious Diseases (DNM2IP). < <https://www.pasteur.fr/en/DNM2IP> >

We thus need your contribution to advertise our MOOC by forwarding the enclosed flyer to your network or by sharing the news on Twitter < <https://twitter.com/PasteurEdu/status/1438130112382357509> > .

Please do share widely with anyone who may be interested.

You can find the registration link at <https://www.fun-mooc.fr/en/courses/human-population-and-evolutionary-genetics/> Course start date: 06/Dec/21 enrollment until 07/Feb/22

* Teaser <https://youtu.be/yA8yjTrSrP0> * Post Twitter : <https://twitter.com/PasteurEdu/status/1456549835314708500> * Web research Pasteur: <https://research.pasteur.fr/fr/course/human-population-and-evolutionary-genetics/> * Institute Pasteur Online Diploma of Infectious Diseases (DNM2IP): <https://www.pasteur.fr/en/DNM2IP>

Warmest wishes,

Malgorzata Gazda

Community Manager

Malgorzata GAZDA <malgorzata.gazda@pasteur.fr>

Online Introduction To Flora Of Alaska Jan10-Apr25

Dear all,

Due to COVID restriction BIOL331 Systematic Botany will be offered as an online option again this year at the University of Alaska Fairbanks. Are you interested in learning about the Flora of Alaska as well as getting familiar with some unique approaches to delivering a systematic botany course online, this might be the one for you. One of the hallmarks of systematic botany courses is the hands-on learning experience in a laboratory setting. To create a similar lab experience or the online offering, we have carefully chosen technology that will allow students from all over the state (and even out-

side Alaska) to collect data in their home communities, perform plant dissections and have a hands-on learning experience within the flora's native environment. Instead of traditional course materials like textbooks, students will purchase an inexpensive wide-angle macro lens that connects to their smartphone or tablet. This 2-inch lens lets students take high-resolution, detailed photos of flora on the go with classifying metadata, such as GPS location attached. The technology not only lets students mimic lab spaces in their own natural areas but also expands their digital networks through the submission of images to iNaturalist, enabling them to share and collaborate with enthusiasts around the world and contribute citizen science data to research. Students don't just sit at their computers in this class, they go outside, touch with their hands and share what they discover.

Where: University of Alaska Fairbanks (USA)

Instructor: Dr. Steffi Ickert-Bond (Professor of Botany and Curator of the Herbarium (ALA) at the University of Alaska Fairbanks)

Course description

Classification of flowering plants with emphasis on Alaskan flora; familiarity with taxonomy (identification, nomenclature, classification), evolution (speciation, reproductive biology, adaptation, convergence, biogeography) and phylogenetics (morphology and molecules). Lab emphasizes learning representative families and genera of Alaskan flora using keys and manuals.

Student learning outcomes:

A student who successfully completes BIOL F331 should gain the ability to: 1. Discover and classify plant diversity found in Alaska and beyond. 2. Describe and explain the major features and the evolutionary origin of vascular plants. 3. Interpret and evaluate the analytical and experimental tools to understand organismal diversity of plants. 4. Use and apply the vocabulary of plant description. 5. Contribute to biodiversity documentation through the iNaturalist citizen science platform. 6. Identify plants using dichotomous keys. 7. Recognize the major selected gymnosperm, and angiosperm families in Alaska.

Dates: The 3-credit class will run from 10 Jan.- 25 April and is fully asynchronous.

Registration: You can register at <https://ecampus.uaf.edu/registration-form/> and select

202201 BIOL F331 1 35245 - Systematic Botany.

The class charges are \$289/cr. eCampus courses charge in-state tuition no matter where you reside.

Best, Steffi – Steffi Ickert-Bond, Ph.D.

Professor of Botany and Curator of the UA Museum Herbarium (ALA) FNA Regional Coordinator Alaska-Yukon University of Alaska Fairbanks 1962 Yukon Drive Fairbanks, AK 99775-6960

Phone: 907-474-6277 (office) 907-474-5285 (WRRB lab)
 Fax: 907-474-5469 email: smickertbond@alaska.edu
<http://www.uaf.edu/museum/collections/herb/> <https://www.frontierbotany.info/> Stefanie Ickert-Bond
 <smickertbond@alaska.edu>

Online ReproducibilityInR Mar14-16-18

Dear all,

registrations are now open for the Physalia course “(<https://www.physalia-courses.org/courses-workshops/r-reproducibility/>)”

Dates: 14-16-18 March

Course website: (<https://www.physalia-courses.org/courses-workshops/r-reproducibility/>)

We'll cover RMarkdown, Git, Github, Docker & all the currently available tools to ensure reproducibility of data analysis projects using R.

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.

Basic prior experience with R is recommended. If you have ever read data and generated a graph or table based on it, you have everything you need to participate.

Should you have any questions, please feel free to contact us at : info@physalia-courses.org

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online UnderstandingMacroevolution Jan31-Feb11

Dear colleagues,

Registration is open for the course “Understanding Macroevolutionary Dynamics using RPANDA and jPANDA”, January 31st-February 11th, 2022.

Schedule: Online live sessions on 31st of January, and 2nd, 4th, 7th, 9th, and 11th of February, 2022 (Madrid time zone).

Instructors: Dr. H₂Li₂ne Morlon (IBENS, France), Sophia Lambert (IBENS / MNHN, France), Dr. Fabien Condamine (Institut des Sciences de l'Evolution de Montpellier, France), Dr. Ignacio Quintero (IBENS, France), Dr. Julien Clavel (CNRS, France), Dr. Jonathan Drury (Durham University, UK) and Dr. Benoit Perez-Lamarque (IBENS, France)

Course Overview:

Phylogenetic analyses are central for understanding the ecological and evolutionary processes shaping present-day biodiversity patterns.

In this course participants will learn phylogenetic analyses with the RPANDA R package. They will also have a quick introduction to Julia and to the jPANDA Julia package.

The RPANDA package contains tools for macroevolutionary analyses on phylogenetic trees, in particular for the analysis of diversification and trait evolution from comparative data.

The instructors will introduce the theory behind these analyses, run practicals with illustrative examples, and guide the interpretation of the output of these analyses.

This workshop is primarily intended for (but is not exclusive to) graduate students and postdocs. Participants are encouraged to bring their own phylogenetic datasets (with potentially matching trait, biogeographic and paleoenvironmental datasets).

More information and registrations: <https://www.transmittingscience.com/courses/evolution/understanding-macroevolutionary-dynamics-using-rpanda-and-jpanda/> [1] or writing to courses@transmittingscience.com

Best wishes

Sole

– Soledad De Esteban-Trivigno, PhD. (she/her) Scientific Director www.transmittingscience.com [2]

Twitter: @soledeesteban Instagram: @soledaddeesteban Researchgate: https://www.researchgate.net/profile/Soledad_De_Esteban-Trivigno ORCID: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

Links:

[1] <https://www.transmittingscience.com/courses/-evolution/understanding-macroevolutionary-dynamics-using-rpanda-and-jpanda/> [2] <http://www.transmittingscience.com> Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.com>

UMichigan NextProf Diversifying Academia

NextProf Science workshop

We wish to invite interested evolutionary biologists, ecologists, and organismal biologists to the NextProf Science workshop at the University of Michigan.

NextProf Science (Virtual) Future Faculty Workshop

The NextProf Science Workshop is designed to encourage talented scientists and mathematicians with a demonstrated commitment to diversity to consider academia an exciting and rewarding career. We will help you develop strategies to strengthen your ability to pursue an academic career.

This year the workshop will be virtual but there will be many opportunities to interact with faculty and other participants and have your questions answered!

Participants will develop strategies to prepare them to pursue academic careers. The workshop is targeted at scholars ready to take the next step postdoctoral fellows and very advanced doctoral students. Underrepresented minorities and women are especially encouraged to apply.

Deadline for submission of the application and reference letter is January 24, 2022.

Learn more at: <https://sites.lsa.umich.edu/nextprof-science> U-M EEB NextProf Organizing Committee (Tom Duda & Ben Winger)

Tom Duda <tfduda@umich.edu>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX 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 send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most 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 L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.