
E v o l D i r

March 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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Blossin Germany EvolutionSymbionts Sep7-11

Abstract submission will open on the 7th of March for the above meeting, to be held at Blossin, close to Berlin, Germany.

https://www.bcp.fu-berlin.de/en/biologie/-arbeitsgruppen/zoologie/ag_rolff/Ecological-Immunology-Workshop-2022/Home/index.html

The meeting is the next installment in a loose series of workshops on ecological & evolutionary immunology / insect immunity, that started in 2001 in Sheffield, the most recent one being in Blossin in 2017. These meetings bring together researchers with different backgrounds but with a shared interest in immunity and host-microbe interactions, and where we encourage the presentation of unpublished results.

The hallmark of these workshops is the open atmosphere, fostering free exchange by keeping it an affordable, small meeting (~85 participants). The format consists of invited speakers, contributed talks and a dedicated poster session. Long breaks provide plenty of opportunity for informal exchange. Past workshops have initiated new

collaborations and ideas focusing on frontier research.â€

The premises are basic but in a beautiful location conducive to the success of the meeting. We will be located at a lakeside, which offers great swimming and canoeing, and a small bar on the lakeside.

â€Our invited speakers are:

Nicholas Buchon (Cornell University, USA)

Delphine Destoumieux-Garzon (University of Montpellier, France)

Laura Fl6rez (University of Copenhagen, Denmark)

Brian Lazzaro (Cornell University, USA)

Bruno Lemaitre (EPFL Lausanne, Switzerland)

Jessica Metcalf (Princeton University, USA)

Charlotte Rafaluk-Mohr (Freie Universitat Berlin, Germany)

Roland Regoes (ETH Zurich, Switzerland)

Paul Schmid-Hempel (ETH Zurich, Switzerland)

Mike Strand (University of Georgia, USA)

Yuko Ulrich (Max Planck Institute for Chemical Ecology, Jena, Germany)

Pedro Vale (University of Edinburgh, UK)

Heiko Vogel (Max-Planck Institute for Chemical Ecol-

ogy, Jena, Germany)

Bregje Wertheim (Groningen University, The Netherlands)

Anna Zaidman-Rémy (Insitute National de Sciences Appliquées, Lyon, France) â€

Important dates:â€

25th March - Abstract submission deadline

31st March - Decisions on abstracts

14th April - Registration deadline and payment of fees
â€

Costs:

Includes registration fee, accommodation and food. The below are estimates. We will have final figures when abstract submission opens.

€360 Student

€440 Non-student

Stipends:

We are excited to be able to offer five stipends to female PhD students or post-docs presenting either a poster or a talk at the workshop, and who are working in countries classified by the OECD as low or middle income (<https://www.oecd.org/dac/financing-sustainable-development/development-finance-standards/daclist.htm>). Each stipend will be for 1000 EUR. More details about how to apply for the stipend will be given on our homepage.

Please circulate this advert amongst your colleagues. More details will follow soon!

Best wishes from the organisersâ€â€.

Sophie Armitage, Maryam Keshavarz, Lea Otte, Jens Rolff & Caroline Zanchi

Freie Universität Berlin

We are grateful for funding from the German Research Foundation (Deutsche Forschungsgemeinschaft (DFG) through FOR 5026) for this workshop.

Caroline Zanchi <caroline.zanchi@fu-berlin.de>

CIGENE ApeAdmixture Feb16

Dear All,

We are very happy to welcome you to a new season of CIGENE seminars, please find the schedule attached. The first presenter this season is Martin Kuhlwilm, Assistant Professor, University of Vienna. He will present:

Admixture in apes and humans and its consequences

Abstract: Admixture is an important topic in many species, including humans and our extinct relatives. Great apes also show patterns of admixture, and the exchange of genetic material did have an impact on these species as well. Studying their genomes guides our understanding of adaptation and speciation.

Time: Wednesday, February 16th, 12:00-13:00 CET

Place: This will be an online seminar. For more information, check out the seminar website:

<https://cigene.no/cigene-seminar-series/> ** Postdoc Fellowship Info ** https://drive.google.com/file/d/1R3gPbPUvBBZKuHKE5k5avvMJgdq_FKrW/view

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

ColdSpringHarborLab BiologyOfGenomes May10-14

Cold Spring Harbor Laboratory Meetings & Courses
<meetmail@cshl.edu>

The Biology of Genomes - CSHL Meeting May 2022

The Biology of Genomes May 10 - 14, 2022 Abstracts Due: February 18 Organizers Christina Curtis, Stanford University Hopi Hoekstra, Harvard University John Marioni, European Bioinformatics Institute, UK Jay Shendure, University of Washington Topics Population Genomics Evolutionary & Non-Human Genomics Complex Traits & Microbiome Functional Genomics & Epigenetics Computational Genomics Cancer & Medical Genomics Developmental and Single Cell Genomics

Keynote Speakers Pardis Sabeti, Broad Institute of MIT and Harvard Jonathan Weissman, Massachusetts Institute of Technology Discussion Leaders Britt Adamson, Princeton University Luis Barreiro, University of Chicago Ami Bhatt, Stanford University Michael Desai, Harvard University Jean Fan, Johns Hopkins University Moritz Gerstung, European Bioinformatics Institute, United Kingdom Hani Goodarzi, University of California, San Francisco Emilia Huerta-Sanchez, Brown University Sarah Kocher, Princeton University Debora Marks, Harvard Medical School Corrie Moreau, Cornell University Lior Pachter, California Institute of Technology Elli Papaemmanuil, Memorial Sloan Kettering Cancer Center Jenny Tung, Duke University For more information and to register please visit The Biology of Genomes meeting website. Cold Spring Harbor Laboratory - Meetings & Courses | 1 Bungtown Road, Cold Spring Harbor, NY 11724

meetmail@cshl.edu

Columbia TandemRepeats When

Dear evoldir community,

It is our greatest pleasure to announce our ESEB 2022 symposium “Tandem repeats: their role in molecular evolution and methods” (S27), which is now open for submissions (see <https://www.eseb2022.cz> for further details).

Tandem repeats (TRs) are adjacent repetitive stretches of genomic DNA, found in abundance across all kingdoms of life. TRs provide a rich source of variation in populations, hence a perfect playground for natural selection forces. Especially, shorter TRs are known for their orders of magnitude high mutation rates compared to SNPs and indels. TR-suitable methods and resources are emerging one after the other allowing accurate TR annotation and genotyping integrated into existing genomic pipeline workflows. Analysis of TR variation in populations and over longer evolutionary time suggest STRs as a major contributor to complex traits heritability with a major impact on protein function and expression.

This symposium will focus on the typing approaches, evolution, and functional analysis of these highly polymorphic elements. We aim to bring together both researchers who develop and apply methods for accurate STR genotyping, and identification of STRs relevant for phenotypic evolution, and recent adaptations. This

way, the symposium will facilitate interactions between researchers from different backgrounds and promote the interdisciplinary study of the STRs, an emerging major source of phenotypic variation. Therefore, we expect this symposium to be of interest to a broad range of researchers in the fields of bioinformatics, population genomics, and evolutionary biology.

Keynote speakers:

Melissa Gymrek, UCSD, California

Miguel Andrade, Johannes Gutenberg University, Mainz

Organisers:

Tugce Bilgin, Columbia University, New York

Maria Anisimova, ZHAW, Zurich

Abstracts can be submitted on:

<https://www.eseb2022.cz/en/call-for-abstracts-page>.

Deadline is April 15 2022.

ESEB also proposes a grant in order to ensure equal opportunities. For further details:

<https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> For more information email tb2879@columbia.edu

Tugce Bilgin Sonay <tb2879@columbia.edu>

Hinxton ConservationGenomics Nov30-Dec2

Wellcome Connecting Science | Conservation Genomics at the Population Level

30 November-02 December 2022 Wellcome Genome Campus, Hinxton, UK

<https://coursesandconferences.wellcomeconnectingscience.org/-event/conservation-genomics-at-the-population-level-20221130/> Population level analysis of complete

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

This meeting will bring together scientists addressing the challenges and opportunities arising from the rapid development of population-level conservation genomics. As the methods discussed will be cutting-edge, those interested in population and evolutionary genomics in other communities may benefit learning and applying similar techniques to their own research.

This conference will be a hybrid meeting - with onsite or virtual attendance.

If you have any questions, please contact conferences@wellcomeconnectingscience.org

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

Jane Murphy <jane.murphy@wellcomeconnectingscience.org>

Konstanz QUeeR in EEB May 19-20

We invite you to the first “QUeeR in EEB” event at the University of Konstanz (Germany), which will take place on May 19-20, 2022. Our goal is to provide a place for networking among students and scientists from around the world who identify as queer and work in the field of ecology and evolutionary biology (EEB). The event will be a mix of half-day workshops on networking and empowerment, as well as scientific presentations and discussions. Our focus is on science, and we aim to stimulate interesting and fruitful discussions among members of the queer EEB community. QUeeR in EEB is planned as a hybrid event (in-person and online). More information can be found here:

<https://www.rtg-resilience.uni-konstanz.de/events/-queer-eco-evo/> Prof. Dr. Lutz Becks University of Konstanz Aquatic Ecology and Evolution Limnological Institute University Mainaustraße 252 78464 Konstanz / Egg Germany Phone: 07531 88 2828 E-Mail: lutz.becks@uni-konstanz.de <https://www.limnologie.uni-konstanz.de/en/ag-becks/> Back on Campus

Wintersemester 2021/2022: vor Ort studieren - aber sicher!

Lutz Becks <lutz.becks@uni-konstanz.de>

Lisbon IntlSocEvolutionMedicine Jul5-8

Registration and abstract submission have just opened for the Seventh Annual Meeting of the International Society for Evolution, Medicine, and Public Health, in-person in Lisbon, Portugal, July 5-8.

Full information is at the Society’s website: <https://isemph.org> . ->Special membership discounts until February 28. <https://isemph.org/membership> ->Early registration discounts now; registration fees are refundable until two weeks before the event. <https://isemph.org/page-18274> ->Abstract submission is open now. <https://isemph.org/ISEMPH-2022-Abstract-submission> ISEMPH 2022 welcomes researchers, clinicians, public health professionals, and students at all levels as well as anyone interested in this integrative view of evolutionary biology and medicine. The meeting will gather delegates from around the world. For many of us this will be the first opportunity in two years to reconnect, and to consolidate new and ongoing collaborations, while promoting important cross-talk among all disciplines that influence the field of Evolutionary Medicine.

DATES February 16 Registration and abstract submission open February 28 Special 20% ISEMPH membership discount ends April 15 Abstract submission deadline May 1 Abstract acceptance notifications May 15 Discounted early registration ends June 20 Last day to cancel and get a refund July 5 Committee meetings and evening reception July 6-8 ISEMPH 2022!

VENUE The conference will be held at the Fundação Calouste Gulbenkian (FCG, in the Portuguese acronym) in Lisbon. FCG is a pleasant, iconic, and easily accessible place in the center of Lisbon, with ample indoor and outdoor spaces. Around the FCG, there are many options for accommodation and food, covering a wide range of prices and styles, suitable for all.

KEYNOTE SPEAKERS Sebastian Bonhoeffer, ETH, Switzerland, Combination therapy and the evolution of drug resistance Mhairi Gibson, University of Bristol, UK, The social and evolutionary dynamics of female genital mutilation/cutting (FGM/C) abandonment Isabel Gordo, Instituto Gulbenkian de Ciência, Portugal, Eco-evolutionary dynamics of *Escherichia coli* when it colonizes the intestinal tract Joseph L. Graves, North Carolina A&T State University, USA, Racial health in-

equality is a solved problem: Now what do we do about it? Gunther Janssen, Pharma PHC Centre of Excellence, Hoffman-La Roche / Genentech, Switzerland, Afternoon Discussion and Q&A on Pharma in and Evolutionary World C. Jessica Metcalf, Princeton University, USA, What we can and can't predict about the evolutionary trajectory of SARS-CoV-2 Winner of the \$5,000 Omenn Prize NOMINATE your article or another article today <https://isemph.org/Omenn-Prize> Winner of the Williams Prize for the best article published in 2021 in Evolution, Medicine, and Public Health

We welcome your questions! HostingCommittee@isemph.org ProgramCommittee@isemph.org Manager@isemph.org

Randolph Nesse <nesse@asu.edu>

Naples EuroEvoDevo AbstrSubmissionDeadlineExtMar4

Dear EvoDevo enthusiasts,

Upon general request we have decided to *extend the period for abstract submission* for the Euro Evo Devo conference, which takes place from May 31 to June 3 in the historic city center of Naples, Italy, at the beautiful Stazione Marittima and with satellite meetings at the Stazione Zoologica Anton Dohrn.

Abstracts can still be submitted until the date limit for early bird registration, which is *March 4, 2022*.

Please check <https://www.evodevonapoli.eu/> for additional information, and for registration and abstract submission. The conference and the early bird registration date are still approaching rapidly!

We would also like to take this opportunity to assure you that we will of course adhere to all covid-related public health guidelines in place at the time of the conference. Updates on this will be provided on the conference website.

We look forward to meeting you all in Italy, to discuss science with good old and new friends alike!

With all best wishes,

The local organizing committee The executive committee of the European Society for Evolutionary Developmental Biology

“eed.soc@gmail.com” <eed.soc@gmail.com>

Naples EuroEvoDevo May31-Jun3

Dear EvoDevo enthusiasts,

We are happy to confirm that - for the first time in several years - it will be possible to hold our traditional EED Conference as an in-person meeting again. The conference will take place in the beautiful city of Naples, Italy, *from May 31 to June 3*. Our Italian friends say this is the best time of the year!

The EED Society and the Local Organizing Committee have prepared an exciting program that covers many of the current hot topics in evo-devo. Please visit the conference website <https://www.evodevonapoli.eu/> that contains all the necessary information and provides links to registration and abstract submission. Note that the deadlines for abstract submission and early-bird registration are approaching rapidly!

We look forward to seeing you all in Naples,

The local organizing committee of the EED Conference
The executive committee of the European Society for Evolutionary Developmental Biology

EED Society <eed.soc@gmail.com>

Naples EvoDevo May31-Jun3

Dear colleagues,

the 8th Meeting of the European Society for Evolutionary Developmental Biology will take place from the 31st of May to the 3rd of June, 2022 in Naples, Italy.

The deadline for submitting abstracts is approaching rapidly, it is already on February 15, 2022.

For more information, abstract submission and registration, please check: <https://www.evodevonapoli.eu/>
Best regards,

Tom Van Dooren

treasurer Euro Evo Devo Society

<https://iees-paris.fr/annuaire/van-dooren-tom/> Tom Van Dooren <tvdooren@gmail.com>

Online FishStressAdaptation Mar2

Hi all,

At the next CIGENE seminar, Dr. Arianna Servili, Ifremer, Université de Brest, France, will present:

Global change impacts reproduction and stress response of fish

Abstract: Anthropogenic emissions of carbon dioxide in the atmosphere generate rapid variations in atmospheric composition which drives major climate changes. This includes variations in physicochemical properties of sea and freshwater, such as water temperature, salinity, pH/pCO₂ and oxygen content, which can impact fish critical physiological functions. We will discuss how climate change related effects would impact reproduction of fish affecting the neuroendocrine axes, with a special focus on the effect of ocean acidification on reproduction and stress response of the marine teleost the European sea bass

Time: Wednesday, March 2nd, 12:00-13:00 CET Place: This will be an online seminar For more information, check out the seminar website: <https://cigene.no/cigene-seminar-series/> – Marie SAITOU, Ph.D. (Looking for a postdoc! By 3/27)

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

a positive response promises thorough and interesting discussions throughout the meeting. To trigger the discussion sessions, we need you to tell us about your research! Maybe our previous announcement was not clear enough. Contributed presentations do not need to cover the full spectrum from genotype to phenotype. We encourage contributions covering various individual aspects of the topic. - You are working on the phenotypic end of the spectrum? Great! - You gathered exciting data about genotypic variation? Excellent! - You are interested predominantly in developmental biology or in computational or theoretical approaches? We want you!

Therefore, if you work on any of the above-mentioned aspects and/or combinations of those please submit your abstract until Feb 20. Contributions from all academic levels are welcome (grad students, postdocs, PIs). If you registered already, just re-register incl. the abstract information.

Key dates and links: - Deadline for abstract submission: February 20, 2022 - Deadline for registration: March 1, 2022 - For more information, the program, abstract submission, and registration visit: <https://www.posnien-lab.net/dzg-gradmeeting/> We are looking forward to meeting you soon!

Best wishes, Natascha and Nico

Nico Posnien (he/him) Georg-August-University Göttingen Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology Department of Developmental Biology Ernst-Caspari-Haus (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

Phone: +49 (0) 55139 28662 E-mail: nposnie@gwdg.de Website: <http://www.posnien-lab.net> Twitter: @PosnienLab

“Posnien, Nico” <nposnie@gwdg.de>

Online GenotypePhenotype Mar2-4

Hi all,

many thanks for the excitingly positive response to our virtual meeting “Mind the gap: From Genotype to Phenotype and the role of Modelling, Genomic Prediction and Development” organized by the Developmental Biology section of the German Zoological Society. We already received more registrations than expected, showing us that the topic is relevant for many of you. Such

Online VisualizingBiologicalData Mar16-18

Call for participation at the 12th international meeting on Visualizing Biological Data

Venue: Online in partnership with U. Southern Calif.’s Bridge Institute. Dates: March 16-18, with sessions starting daily at 8.30am Pacific Daylight Time. Pre-conference Data Visualisation Masterclass: March 14-15.

Homepage: <https://vizbi.org/2022> Earlybird registra-

tion closes February 28. Please see <https://vizbi.org/2022/Registration> All participants are invited to submit an online poster and lightning talk video for presentation during the main conference. For more details about the conference and speaker line up, please read on below.

VIZBI brings together researchers, artists, designers and animators working across the fields of biology and medicine who apply or develop data visualization approaches for understanding and communicating insight. VIZBI 2022 takes place online, in partnership with the University of Southern California's Bridge Institute in Los Angeles, USA.

Speaker line up is below. For the full program, see <https://vizbi.org/2022/Program> You can also download the VIZBI 2022 poster at <https://vizbi.org/2022/-img/Poster/Hi-res.pdf> VIZBI 2022's speaker line up includes: Keynotes * Ben Fry (Fantom, USA) * Bongshin Lee (Microsoft Research, USA) * David Goodsell (Rutgers, USA) and Helen Berman (Rutgers, USA) DNA: * Clodagh O'Shea (Salk Inst., USA) * Erik Garrison (UTHSC, USA) * Jian Ma (Carnegie Mellon U., USA) RNA: * Athma Pai (UMass Chan, USA) * Michelle Scott (U. Sherbrooke, CA) * Jane Richardson (Duke U., USA) Proteins: * Jan Kosinski (EMBL, Germany) * Carolyn Ott (HHMI Janelia, USA) * Bosco Ho (Redesign Science Inc., USA) Cells: * Gokul Upadhyayula (UC Berkeley, USA) * Meghan Driscoll (UTSW, USA) * Elizabeth Brunk (UNC Chapel Hill, USA) Tissues & Organisms: * Nils Lindström (USC, USA) * Hao Li (UC Berkeley & Pinscreen, USA) * Kristin Branson (HHMI Janelia, USA) Populations and Ecosystems: * Ana Crisan (Tableau Research, USA) * David Aanensen (U. Oxford & Wellcome Sanger, UK) * Holly Bik (U. Georgia, USA)

Thanks for your attention!

The University of Dundee is a registered Scottish Charity, No: SC015096

"James Procter (Staff)" <J.Procter@dundee.ac.uk>

Prague ESEB Colour Variation Aug14-19

Abstract submission is now open for our ESEB 2022 symposium, S14 "Ecological drivers and evolutionary consequences of within-population colour variation". The meeting will be held in Prague, Czech Republic on August 14-19, 2022 (<https://www.eseb2022.cz/>).

Symposium description: Colours of wild flowers and animals are the most conspicuous and highly diverse traits in nature. While many plant and animal species are colour-uniform, some species exhibit remarkable within-population colour variation, either in the form of discrete morphs (polymorphic species) or continuous variation. Phenotypic selection is expected to operate on such colour monomorphism, and investigating the mechanisms that counteract the eroding effect of genetic drift that can lead to the loss of morphs can provide a deeper understanding of how diversity is maintained. Most evidence in plants suggests that within-population colour variation is maintained by balancing selection, mediated by multiple selection regimes, often from pollinators. In animals, sexual selection and predation may be a common and widespread mechanisms maintaining colour polymorphisms. Some evidence suggests that frequency-dependent selection can maintain colour polymorphisms, but this mechanism has only been demonstrated in a few systems. Colour variation is also influenced by other evolutionary processes than selection, including genetic drift and mutation and demographic processes, and colour can be genetically correlated with other traits that are targets of selection. However, most of these mechanisms and their balance with selection have not been subject to rigorous empirical tests. In this symposium we aim to address the drivers of within-population colour variation, and the mechanisms that either maintain such variation or erode it. Among-population and among-species variation are well studied and discussed in past ESEB meetings. Colour variation within populations, however, has gotten less attention. We will bring together botanists and zoologists, theoreticians and empiricists, to explore the evolutionary dynamics of such colour polymorphisms. We plan to discuss topics ranging from sexual selection and signalling to aposematism and deception, with the overall aim to understand the eco-evolutionary dynamics of such polymorphisms. Potentially, the symposium will provide a baseline to a unified theory of colour evolution, and will identify new prospective directions for future research that will advance our understanding of polymorphic variation in nature. In addition, we will propose to publish the symposium as a special issue in *Journal of Evolutionary Biology*.

The two keynote speakers for the session are Dr. Karin Kjærsmo (University of Bristol, UK) and Dr. Nathalie Feiner (Lund University, Sweden).

We especially encourage submissions from early career researchers and from researchers from historically underrepresented groups. ESEB has funding opportunities to support meeting attendance, including conference travel awards for early career researchers (<https://>

(eseb.org/prizes-funding/conference-travel-award/) and attendance aid grants for caregiving women and others who incur additional costs when attending meetings (<https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/>).

See <https://www.eseb2022.cz> for more information on the conference and how to submit an abstract.

Organizers: Yuval Sapir (Tel Aviv University), Erik Svensson (Lund University), Beatriz Willink (University of Costa Rica), Katarzyna Roguz (University of Warsaw), and Lesley Lancaster (University of Aberdeen)

Yuval Sapir, PhD Yehuda Naftali Botanic Garden School of Plant Sciences and Food Security Curator, The Herbarium, The Steinhardt Museum of Natural History Tel-Aviv University, Tel Aviv, 69978 Israel Tl: +972(0)3-6407354 (lab); +972(0)54-7203140 (mobile) <http://botanic.tau.ac.il/> <http://labsapir.wix.com/labsapir>

yuval sapir <sapiryuval@gmail.com>

Prague ESEB Domestication With Ancient DNA Aug14-19

Dear colleagues,

We are excited to announce our symposium titled “Domestication: Fresh insights from ancient genomics” to be held during the ESEB meeting in Prague between August 14-19, 2022.

More information about the ESEB meeting can be found below and at the conference website: www.eseb2022.cz
S33: Domestication: Fresh insights from ancient genomics

Animal and plant domestication events have fundamentally changed human societies in multitude ways, while biologically shaping the domesticated species themselves. The tempo and mode of domestication processes, the subsequent dynamics of transport, breeding and introgression between domesticates and their wild relatives, the genetic bases of selected traits, as well as the social and biological impacts of animal husbandry and farming on humans have long been investigated, using either archaeological evidence or inferences from biological studies of extant species. The advent of ancient genomics, however, has been a game changer. The last few years have seen a wide range of spectacular work

that rewrote domestication histories of different species, from dogs to chicken. This session aims to bring together the most recent and exciting work on animal and plant domestication, covering both the reconstruction of demographic history, analyses of selective sweeps, evidence for relaxation of constraints, as well as studies on ancient pathogens.

Invited speakers

Dr. Laurent Franz, Ludwig-Maximilians-Universität München, Germany

Dr. Catarina Ginja, Universidade do Porto, Portugal

Organisers

Mehmet Somel, Middle East Technical University, Turkey (somel.mehmet@gmail.com)

Anders Götherström, Stockholm University, Sweden (anders.gotherstrom@arklab.su.se)

Eva-Maria Geigl, Institut Jacques Monod, CNRS, France (Eva-maria.GEIGL@ijm.fr)

Dates

Registration opens: February 2022

The abstract submission deadline: April 15, 2022

Selected contributions to be announced by: May 10, 2022.

Early-bird registration closes: June 15, 2022

Useful links

Abstract submission page: <https://www.eseb2022.cz/en/call-for-abstracts-page> Equal opportunities grant: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> Looking forward to seeing you in Prague!

Eva-Maria, Anders, and Mehmet

Mehmet Somel METU Dept. Biology / ODTÜ Biyoloji Bölümü 06800 Ankara, Turkey Tel: +90-543-9799060; Office: +90-312-2106460 Email: msomel@metu.edu.tr Lab: comevo.bio.metu.edu.tr aDNA Lab: <http://adna.bio.metu.edu.tr/> Eco-Evo Society of Turkey: <https://ekoevo.org> Mehmet Somel <msomel@metu.edu.tr>

Prague ESEB
DynamicsOfChangingEnvironments
Aug14-19

Dear colleagues,

Our ESEB 2022 symposium “Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies” (S10), is now open for submissions (see <https://www.eseb2022.cz> for further details).

Eco-evolutionary dynamics is fundamental to our understanding of processes that shape species’ distributions and their capacity to adapt. Notably, due to the unabating climate change, environmental conditions change at an unprecedented speed and often exhibit higher fluctuations. These can increase the selective pressures on the populations and may drive major shifts in species composition. In this context, an improved understanding of eco-evolutionary processes is not only relevant to grasp the conditions for the maintenance of biodiversity but is also essential to provide informed management policies.

Necessarily, experiments and theory develop in tandem: without theory, one does not know what to measure; and without experiments, no theory can be corroborated and assumptions may go seriously astray. The proposed symposium aims to foster the dialogue between theory in evolutionary ecology and assessment of the eco-evolutionary dynamics in both natural and experimental evolution. The focus will be on evolution with spatial and/or temporal variation, where eco-evolutionary processes are especially important. For modelling contributions, it will be required that the theory is formulated in a way which makes it in principle testable in natural or experimental populations. Extension to coevolution and macroecological theory are welcome.

Our two keynote speakers are Jason P. Sexton (University of California) and Ruth A. Hufbauer (Colorado State University).

Abstracts can be submitted on: <https://www.eseb2022.cz/en/call-for-abstracts-page>. Deadline is April 15 2022.

ESEB also proposes a grant in order to ensure equal opportunities. For further details: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress->

[attendance-aid-grant/](#) For questions, please contact us at jitka@univie.ac.at and lfouqueau@sb-roscoff.fr

Sincerely,

Jitka & Louise

Louise Fouqueau Postdoctoral student Team EBEA IRL3614 CNRS-Sorbonne Université Station Biologique de Roscoff YD building - Door 203 Place Georges Teissier 29680 Roscoff, FRANCE Tel: +33 2 98 29 25 44

Louise Fouqueau <lfouqueau@sb-roscoff.fr>

lfouqueau@sb-roscoff.fr

Prague ESEB
InterplayPlasticityEvol Aug14-19

Dear colleagues,

We are organising a symposium at ESEB 2022 this summer on the interplay between plasticity and evolution during global change. Are plastic responses good enough to cope with novel conditions? What role can evolution play if plasticity is (mal)adaptive?

We invited two excellent people who tackle these questions, Anne Charmantier and Ryan Martin, to speak in our session.

We encourage everyone interested in this topic to submit their abstract.

S20. Unravelling the interplay between plasticity and evolution during rapid global change

Following the accumulating evidence showing that ongoing rapid global change is forcing many species to cope with new conditions, a pressing question emerges: what mechanisms underlie responses to these novel conditions? Moreover, what are the respective contributions of evolution and plasticity in facilitating species’ persistence? How does the interaction between plasticity and evolution shape responses to novel conditions? Phenotypic plasticity can be a rapid type of response for coping with global change, yet may be insufficient to protect species from extinction. Evolution may play an important role by reinforcing adaptive plastic responses, or opposing maladaptive plastic responses. Indeed, adaptive plasticity can increase relative fitness which can eventually lead to canalization of the plastic response through evolution. It is however not known how developmental mechanisms influence this process, and whether some types of traits are more likely to experience this. Only in recent years

the interplay between maladaptive plasticity and evolution has gained more attention, despite the expectation that these responses are under stronger directional selection than adaptive plastic responses. Critical gaps remain on the relative role of the various ways evolution can interact with different types of plasticity, and how these influence the rate of response to global change.

Registration is open.

Abstract submission deadline: 15. April 2022

Early-bird registration closes: 15. June 2022

Abstract submission page: <https://www.eseb2022.cz/en/call-for-abstracts-page> Equal opportunities grant:

<https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> Hope to see you in Prague,

Janne Swaegers, KU Leuven, Belgium Nedim Tüzüoğlu, KU Leuven, Belgium

<https://bio.kuleuven.be/eeb/esee> Janne Swaegers
<janne.swaegers@kuleuven.be> Janne Swaegers
<janne.swaegers@kuleuven.be>

Prague ESEB
Rapid Evolution Of Color Patterns
Aug14-19

Dear colleagues,

We are happy to announce that abstract submission for our symposium S15 “Rapid evolution of color patterns” at the ESEB 2022 conference is now open.

The symposium will be held at the Congress of the European Society for Evolutionary Biology in Prague, 14-19 August 2022 (<https://www.eseb2022.cz/>). Abstract

Animal and plant color patterns are labile characters that are involved in important biological functions such as reproduction, predator evasion, pollinator attraction, and thermoregulation. A fascinating feature of color variation is that it can evolve rapidly in new environments, as highlighted by dramatic examples in peppered moths, cichlid fishes, and *Heliconius* butterflies.

Beyond these classic cases, technological advances in high-throughput sequencing, phenotyping, and gene editing, have opened new pathways to study rapid evolution using color patterns in a diversity of models. Among other examples, recent studies have highlighted the role

of transposable elements in buffalo coat coloration, chromosome re-arrangement in butterfly wing patterns, and trans-generational plasticity in flower coloration in response to predation. This symposium will assemble researchers who use animal and plant color patterns as models to evaluate the diversity of factors driving and constraining rapid phenotypic evolution. We will foster transdisciplinary discussions addressing long-standing questions on the genetic substrate of recurrent adaptation and the mechanistic scale of convergence. Ultimately, we hope to gain a more comprehensive understanding of the mechanisms underlying rapid adaptation.

Invited speakers

Mar Sobral, Universidade de Santiago de Compostela, Spain

Patricia Beldade, Universidade de Lisboa, Portugal
Abstract submission deadline: 15 April 2022
Abstract submission page: <https://www.eseb2022.cz/en/call-for-abstracts-page> Conference attendance aid grant: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> For any questions, contact Sandra Goutte (sg5533@nyu.edu) or Yann Bourgeois (yann.bourgeois@port.ac.uk) We look forward to reading your abstracts!

Sincerely, Sandra and Yann.

Sandra Goutte, Ph.D. Research Associate New York University Abu Dhabi Saadiyat Island campus P.O. Box 129188 Abu Dhabi, United Arab Emirates

< <https://www.flickr.com/gp/133250906@N05/g4196q> >

Sandra Goutte <sg5533@nyu.edu>

Prague ESEB2022 InvasiveSpecies Aug14-19

Dear EvolDir Colleagues,—

We are organizing a symposium at the Congress of the European Society for Evolutionary Biology, in Prague (14-19 August 2022, <https://www.eseb2022.cz>), to discuss the integration of eco-evo concepts in biological invasions.—We welcome your abstracts for this symposium at: <https://www.eseb2022.cz/en/call-for-abstracts-page>. The abstract submission deadline is 15 April 2022.—

SYMPOSIUM 19: **ECO-EVOLUTIONARY DYNAMICS AND FEEDBACKS IN INVASIVE SPECIES**

Introduced alien species are remarkable in their unusual ability to experience rapid evolutionary and ecological changes on relatively short time scales following their introductions to novel ranges. As a result, biological invasions offer valuable insights into processes that contribute to our understanding of population responses to climate change, ecosystem function, extinction and diversification events, with implications for species management and conservation. While a rich literature exists on the ecology and evolution of invasive species, much less is known about how ecological properties and evolutionary changes influence one another, namely, the so-called “eco-evolutionary dynamics” and “eco-evolutionary feedbacks”. Thus, this symposium aims to discuss the innovative integration of concepts from these two fields into the study of invasion biology. In particular, we welcome studies that focus on topics such as interactions between genome architecture and environmental change, adaptive traits and their ecological consequences, post-introduction evolution, feedbacks between organisms and resource dynamics, effects of evolution of dispersal on range expansions, and the interplay between theoretical population genetics and ecological demography. In addition, talks could focus on evolutionary diversification, niche displacement or extinction of resident species induced by invaders. We also encourage studies on ecological genomics that could be applied to non-model invasive populations.

Our invited speakers are Carol Eunmi Lee, Department of Integrative Biology, University of Wisconsin, Madi-

son, <https://carollee.labs.wisc.edu/CarolPersonal.html> and Katrina Dlugosch, University of Arizona, Department of Ecology and Evolutionary Biology, <https://www.dlugosch-lab.net/people>.— —

TRAVEL GRANTS—

ESEB provides funding opportunities to attend the meeting for students and young researchers (<https://eseb.org/prizes-funding/conference-travel-award/>) as well as for underrepresented groups including caregiving women: <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/>. —

We look forward to receiving your abstracts and meeting you in Prague! Organizers: Ramona-Elena Irimia, Isolde van Riemsdijk (University of Tübingen, Germany) and Armand Cavé-Radet (University of Rennes 1, France and University of Tübingen).

For questions related to the symposium, please contact us at: ramona-elena.irimia@uni-tuebingen.de.—

Ramona Irimia, PhD Postdoc, Institute of Evolution and Ecology— University of Tübingen, D-72076,— Tübingen, Germany —

Ramona-elena Irimia <ramona-elena.irimia@uni-tuebingen.de>

SanDiego SocialInsectEvolution Jul3-8

The executive committee of the North American section of the International Union for the Study of Social Insects invites abstract submissions for the IUSSI International Congress, being held in San Diego, CA July 3-8, 2022. The meeting will be held in a hybrid format, allowing attendees to attend in-person or virtually. This quadrennial meeting is the largest entomological meeting focused on social insects, and is the best opportunity for IUSSI-NAS members to present their work to an appreciative audience, interact with current and potential collaborators, and locate future employers. The abstract submission deadline is March 1, and registration will open soon. You will find instructions and the submission portal at http://burkclients.com/IUSSI-meetings/2022/site/abstract_submission.html If your research intersects with a social insect, whether a bee,

wasp, ant, termite, thrip, aphid, social caterpillar, aggregating insect, or beyond, please consider attending the Congress! Cell biology, physiology, neuroscience, genetics, genomics, evolutionary biology, behavior, ecology, complex systems and conservation biology are all well represented within our society, so whatever your interest, you are bound to find interesting presentations and a common community. We are an inclusive, international society, and we welcome current and future social insect biologists at all career stages. We strive to have a society composed of a diversity of genders, ethnicities, study systems and questions, and geographic locations, from both primarily teaching colleges and research universities.

Travel grants are available for students and early-career post-docs, with applications also due by March 1. You will find the travel grant application at <https://iussi.cyberbee.net/iussi-2022/> There will be three types of sessions for contributed presentations.

Symposia. Symposia are designed to bring together speakers addressing a common topic. They were selected by the Program Committee from submitted proposals. Each one addresses a theme developed by the organizers and will include several invited speakers. All symposia also have empty slots available to be filled by contributed abstracts selected by the symposium organizers and the Program Committee. Talks will be 15 minutes long, including time for questions.

Thematic Sessions. Contributed talks that are not assigned to symposia will be organized by the Program Committee into sessions according to topic. Just as for the symposia, talks will be 15 minutes long, including time for questions.

Poster Presentations. Contributed posters will be grouped by topic and assigned to one of two poster sessions to be held in the late afternoon on separate days. Authors are expected to stand by their posters to field questions from participants during their assigned session.

When you submit an abstract, you will have the option of requesting consideration for up to three of the symposia listed below: 1. Mechanisms of individual life history evolution in the social context. 2. Origins & transitions: A model clade approach for social evolution. 3. Major transitions revisited: The how, why, and when of social transitions in insects. 4. What can we learn from simple insect societies? 5. Spatial structure and organization within social insect colonies. 6. Division of labor in social insects: Advancing theory and novel empirical approaches. 7. Sociable arthropods: Broadening conceptions about social insects. 8. Guests of social insects. 9. Advances in collective behavior using

quantitative behavioral tools. 10. The function of network structure: From genes to ecological communities. 11. Tiny brains pushing the limits: Cognitive abilities of social insects. 12. From signaling to sensing: How pheromones modulate social organization. 13. Neurobiology of chemosensation. 14. The sensory ecology of social insect foraging. 15. The effects of anthropogenic warming and increasing thermal variability on social insects. 16. What makes a successful invader? Exploring how genetics, ecological and behavioral factors contribute to the likelihood of invasion by eusocial species. 17. The anthropogenic drivers of social insect invasions. 18. Ecological and economic impacts of invasive social insects. 19. Impacts of introduced honeybee populations on plant-pollinator mutualisms in non-managed ecosystems. 20A. Protecting pollinators and our food supply: Understanding and

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

SMBE Everywhere DatesDetailsAwards

SMBE Everywhere dates and details;

Awards 2022: 15 April deadline for nominations and applications

Dear SMBE Members,

We are writing with three important announcements about the annual meeting, plus two calls for Award nominations and applications for this year.

1. We are pleased to announce the launch of SMBE Everywhere, a series of 8-12 virtual Global Symposia which will occur across the year starting in July 2022 through March 2023. The first virtual Global Symposium will occur on July 11-12, 2022, so please mark your calendars!

This first symposium will feature the Graduate Student Excellence Symposium, the 2022 Faculty Awards Symposium, and the Presidential Address. On the second day of the symposium, we will be holding a Sustainability Plenary, an Inclusivity & Equity Panel Discussion, and the SMBE business meeting. Please mark your calendars, and see details below on Abstract Submission for the Graduate Student

Excellence Symposium!

The full slate of one-day, themed virtual Global Symposia (GS) will be announced later this spring and will all be hosted on a single platform, with the option to attend one, some, or all of the Global Symposia throughout the year via a single registration portal.

2. We would like to make a call for submissions for additional one-day Global Symposia proposals. We have received outstanding submissions, but given the format for this year's meeting, we are inviting submissions for proposals from organizers in Asia, South America, and Africa, specifically (for informal enquiries, contact smbe.contact@gmail.com).

Please submit Global Symposia proposals by email to smbe.contact@gmail.com by 20 February 2022 with "Global Symposium proposal" in the subject line.

Symposium Proposal Guidelines

Symposium organisers should provide a description of the symposium (250 words max) that will be made public if selected. The symposium organisers will also provide a description of how their proposal brings forward the SMBE's objective of equity and diversity, as well as any additional information for the committee to make an informed review (250 words max)

Each symposium will include 1-2 invited speakers plus a number of contributed speakers

Individuals can only be listed as an organiser for one symposium proposal, although organisers can be listed as an invited speaker on another proposal

3. We would like to open the SMBE Everywhere Logo Competition. Entries should be submitted in a vector-based format (*.ai, *.eps, *.pdf) to smbe.contact@gmail.com by 15 March for full consideration. The email subject line should read "SMBE everywhere logo competition" and the winning entry will be notified and will receive a \$500 award.

4. The SMBE Graduate Student Excellence Award provides a forum for young investigators to showcase their exemplary research at the annual meeting. We showcase the winners of this award at the Graduate Student Excellence Symposium, which will be part of SMBE Everywhere symposia in 2022. More details for the symposium will follow in the coming months.

Eligibility: Current graduate students and postdoctoral researchers who are members of the Society and who received their primary doctoral-level degree no earlier than July 2021 are eligible. Eligibility extensions can be granted for any career disruption or delay; such an extension should be requested in a cover letter. Approximately

eight winners will be selected every year to cover the broad spectrum of research covered by SMBE.

How to apply: You must email a scientific abstract (not to exceed 300 words for body of abstract), title of proposed presentation, and your Curriculum Vitae to tosmbe@allenpress.com.

The deadline for applications for this award is 15 April 2022.

5. SMBE seeks nominations for Faculty Awards for Early-Career Excellence, Mid-Career Excellence, Lifetime Contribution, and Community Service. Please consider nominating those of your colleagues you believe deserve to be rewarded for their extraordinary achievements and dedication to the field. Updated descriptions of the awards follow; please read them carefully.

Nominations require a nomination letter, which should clearly indicate the award under consideration and also serve as a recommendation letter; a separate one-page summary of the nominee's qualifications for the award; a CV of the nominee; and an additional letter of recommendation. Self-nomination is not allowed. The nominator need not be an SMBE member, but the nominee must be a member of SMBE to be considered for the award.

SMBE Early-Career Excellence Award

This annual award is intended for outstanding members of the SMBE community who are in the early stages of an independent research career (3-7 years post-Ph.D). The primary signal of research excellence is a trajectory of innovative, creative research that is moving the field of Molecular Biology and Evolution forward. The ideal candidate will

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Sofia Bulgaria DNABarcoding May 25-27

Dear colleagues,

The Organizing Committee of the International Conference on DNA Barcoding and Biodiversity cordially invites you to attend the conference which will be held

on 25-27 May 2022 in Park Hotel Moskva, Sofia, Bulgaria as a hybrid event (both virtually and in-person). The conference is organized by the Institute of Plant Physiology and Genetics, Bulgarian Academy of Sciences, as part of the BULCode project supported by the National Program “European Scientific Networks”, Ministry of Education and Science of Bulgaria.

The aim of the conference is to contribute to the project's overall goal to promote biodiversity studies through DNA barcoding technologies and to strengthen the networking capacity in this field of research in Bulgaria. The 3-day event will bring together renowned scientists engaged in biodiversity and taxonomic studies and implementing DNA marker technologies, including DNA barcoding and metabarcoding, in their research. Examples of successful national DNA barcoding initiatives will also be presented.

The conference will address various fields of application of DNA barcoding and metabarcoding as well as other DNA-based molecular approaches under the following main topics:

Systematics Ecological research Conservation of biodiversity Sustainable agriculture and food safety practices

The conference is listed on iBOL webpage - <https://ibol.org/news-and-media/news-and-events/> . The event will be open to all contributing authors with no registration fee. The terms of participation are announced on the conference website.

We are excited that such renowned invited speakers have confirmed their participation so far:

Prof. Paul Hebert Centre for Biodiversity Genomics, University of Guelph, Canada

Prof. Hugo de Boer Natural History Museum, University of Oslo, Norway

Prof. Marko Mutanen Ecology and Genetics Research Unit, University of Oulu, Finland

Prof. Torbjørn Ekrem Department of Natural History, NTNU University Museum, Norway

Dr. Fedor Āiampor Jr Plant Science and Biodiversity Centre, Slovak Academy of Sciences, Bratislava, Slovakia

Prof. Dr. Kristy Deiner ETH Zurich, Switzerland

Assoc. Prof. Laura Parducci Sapienza University of Rome, Italy

We would be grateful if you share information about the event with your colleagues so that more people have the opportunity to attend.

For additional information about the conference, please

visit the websites of the conference itself <https://cmebg.com/en/sabitia/icdbb2022/> and of the project <https://www.plantbulcode.com/> . Sincerely yours,

Assist. Prof. Georgi Bonchev Chairman of the Organizing Committee

Mira Bonova Event Manager

17 Frederic Joliot-Curie Str., bldg. 2, fl. 5, office 9 Sofia 1113, Bulgaria tel: (+359) 2 9877 422 mobile: (+359) 896 700 956 fax: (+359) 2 988 80 35 email: mira@cmebg.com www.cmebg.com Mira Bonova <mira@cmebg.com>

Tanzania SpeciesInAncientLakes Jul18-21

Dear EvolDir, Please join us for the 9thSpecies In Ancient Lakes conference (SIAL 9) to be held on the shores of LakeTanganyika, Kigoma, Tanzania.

Date: July 18-21 2022

The conference website is available at <http://www.sial-online.org/conferences/sial9>. At this site you will find information about the meeting, accommodation options, COVID policies, travel and registration information. Registration will be done through a separate website hosted by the African Center for Aquatic Research and Education (ACARE) at <https://www.agl-acare.org/-sial9> and there is a link to this site on the SIAL 9 registration page along with registration instruction and fee information.

To promote African participants and students registration fees are 50% lower than for non-African professionals.

The pre-registration deadline for abstract submission and payment is May 18, 2022. After this date payment will still be possible but at the late registration rate and abstracts will no longer be accepted for publication in the program.

For any questions, please contact Andy Cohencohen@arizona.edu

General SIAL 9 Conference Chair General SIAL 9 Conference Chair

UCalifornia SanDiego
RECOMB-CG May20-21
PapersDueFeb18

The 19th RECOMB Satellite Conference on Comparative Genomics

Extended Paper Submission Deadline: February 18, 2022

For 18 years, RECOMB-CG has been an autumnal venue for cutting edge research in comparative genomics by leading researchers in the mathematical, computational and life sciences. This year, RECOMB-CG moves to a May slot to co-locate with the RECOMB in San Diego. Attendance at both meetings offers the best of both worlds:

RECOMB-CG 2022: a small, focused workshop in an intimate setting that fosters lively discussion, new connections and collaborations; RECOMB: a large, international meeting that spans the full range of research in computational molecular biology and attracts participants from across the discipline. With this new schedule, the RECOMB-CG 2022 submission deadline is right around the corner! We invite submissions for review by the RCG program committee on topics including 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; evolution of cancer genomes; comparative epigenomics; paleogenomics; phylodynamics; metagenomics, and related areas. We encourage submissions that offer new biological findings or otherwise highlight their relevance to biology.

Accepted contributions will be presented at the RECOMB-CG 2022 meeting and will appear in the RCG proceedings, published as a Springer LNBI volume. Selected contributions will be invited to participate in a journal special issue (with publication fees). See the <https://recombcg2022.usask.ca/> for more details.

Key Dates

Paper submission deadline extended to: Friday, Feb. 18, 2022 Author notification for papers extended to: Monday, Mar. 14, 2022 Final camera-ready version due extended to: Friday, Mar. 25, 2022

Poster submission deadline: Friday, Mar. 25, 2022 Au-

thor 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

recombcg@gmail.com

YosemiteNatIPark Symbiosis
May13-15

PLEASE SAVE THE DATE MORE DETAILS SOON

Dear Colleagues,

After a two-year absence, The TENTH annual Yosemite Symbiosis Workshop will take place on May 13th-15th, 2022 at the Sierra Nevada Research Institute, Yosemite National Park. We have really missed having this meeting over the last two years. In the previous nine years, this meeting became a great venue for a diversity of symbiosis researchers. We hope to continue to attract a diverse group in 2022!

Keynote speaker 2022: Michelle Nishiguchi, UC Merced

COVID19 Safety:

Attendees will be required to provide proof of full vaccination status against SARS-CoV2 during the registration process.

Rapid antigen tests will be made upon arrival at the conference (provided by us) to provide an extra layer of safety for attendees

The meeting will occur indoors, and masks will be required during meeting sessions when the opportunity for social distancing will be limited.

Meals, and coffee/snack breaks will be provided outside weather permitting. Temperatures in mid-May are usually mild, but there is always some chance that it will be cold and or rainy during the meeting.

Information about our meeting:

Why attend?

Our continuing goal is to better integrate the broad groups of scientists that focus on symbiosis research. Yosemite serves as an ideal site as it is both beautiful and secluded. This will be our 10th annual meeting and we have been consistently attracting scientists from all over the country and overseas.

Who will be there?

The meeting is small by design (~50 participants) and we seek to focus on scientists interested in cooperation, mutualism, and symbiosis. In the past we have covered a range of symbiosis topics from ecology and evolution to molecular mechanisms in different model and non-model systems. We would like to make room for a diverse group of people so we will initially accept up to 3 lab members per group (including the PI) on a first come first served basis.

When is the meeting?

The talks and formal meeting will be held May 14th and 15th, 2022, though we make accommodation arrangements available for attendees to arrive on Friday the 13th to provide opportunities to enjoy the park. There will be a welcome party on the evening of arrival, Friday May 13th. Since time at the conference is limited, we ask attendees to submit an abstract and a preference (talk versus poster). Priority will be given to those presenting. Abstract and early bird registration will be due on March 1st, 2022.

Where is the meeting?

This is the best part! The meeting takes place at the Sierra Nevada Research Station, in Wawona California, within the border of Yosemite National Park!

What will it cost?

We will provide details on the registration page soon. We keep costs to a minimum, and so prices will be very reasonable. We will only be able to accept credit card payments this year.

Please direct any questions to the organizers:

Joel Sachs joels@ucr.edu

A. Carolin Frank cfrank3@ucmerced.edu

Joel L. Sachs (he, him, his) *Professor, *Department of Evolution Ecology & Organismal Biology University of California, Riverside Office (951) 827-6357 / Fax (951) 827-4286 / www.sachslab.com *Post address*: Sachs Lab - UC Riverside 3401 Watkins Dr., 1229 Spieth Hall, Riverside, CA 92521

joels@ucr.edu

GradStudentPositions

AuburnU EvolutionOfVirulence 18	Paris AI and EcoEvolution 28
AucklandU EvolutionFishReproduction 18	UAlaska Fairbanks HerringFisheriesGenetics 28
BielefeldU FungalGenomicAnalysis 19	UBern Switzerland 2 TheoreticalEcoEvo 29
Boku-Venna BioinformaticsOrPopGenetics 20	UCalgary VectorEctoparasiteEvolution 30
Brno Czechia FishBroodParasitism 20	UExeter Abu Dhabi AvianEvolutionBehaviour 30
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DanishTechU BioinformaticsAncientDNA 22	UNebraska Lincoln AvianPopGenomics 32
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AuburnU EvolutionOfVirulence

Hi folks,

I'm looking for a PhD student to join my lab at Auburn University and work on the evolution of virulence in insect-vectored plant pathogens. We'll be applying and extending the evolutionary theory to increase the sustainability of agriculture. It's a collaborative project with opportunities for experimental research with a bacterial pathogen (*Xylella fastidiosa*), their sap-sucking insect vectors, and some of their host plants. If you're interested, please send me an email with your CV and any questions you might have about the position before the end of February.

The position starts in August 2022, that is, the start of the fall semester. It comes with a renewable twelve-month stipend, health insurance, and a tuition waiver.

Candidates who would add to the ethnic, gender, and socioeconomic diversity of the academy are strongly urged to apply.

Cheers!

Nate B Hardy

Associate Professor

Department of Entomology and Plant Pathology

Auburn University

Email: n8@auburn.edu

Website: <http://hardylab.skullisland.info> Nathaniel Hardy <nbh0006@auburn.edu>

AucklandU EvolutionFishReproduction

We are seeking a highly motivated PhD student to be part of a group to investigate the molecular mechanisms underlying the reproduction of the Australasian snapper (*Chrysophrys auratus*).

Supervisors

1. Main supervisor: Associate Professor Maren Wellenreuther, Auckland University and Plant and Food Research (PFR), Nelson, New Zealand.

<https://unidirectory.auckland.ac.nz/people/profile/-m-wellenreuther> 2. Co-supervisor: Craig Radford, Auckland University, New Zealand

3. Advisor: Dr Dafni Anastasiadi (PFR), Plant and Food Research (PFR), Nelson, New Zealand.

4. Advisor: Dr Matthew Wylie (PFR), Plant and Food Research (PFR), Nelson, New Zealand.

Background Aquaculture is the fastest growing food-production sector and New Zealand has the potential to develop a range of locally grown finfish species to meet this increasing demand. Plant and Food Research (<http://www.plantandfood.co.nz>) is known worldwide for its innovative breeding and genomics research, and it is leading the development of New Zealand seafood genomics. Understanding and controlling the reproductive development of fish in captivity is critical for the establishment of new aquaculture species and the production of high quality seed. From gonadal differentiation to gametogenesis and spawning, reproduction is regulated by external and internal cues that trigger finely tuned molecular networks. Expression of key genes associated with reproduction respond to the endocrine regulation of the brain-pituitary-gonad axis. Furthermore, epigenetic mechanisms can mediate changes in gene expression since they are inducible by external cues. This PhD project will involve working alongside a group of experienced researchers to study the molecular mechanisms involved in the reproductive development of cultured Australasian snapper (*Chrysophrys auratus*), using molecular, transcriptomic and epigenomic approaches, and their association with reproductive phenotypes. The PhD student will gain experience working with collaborators from New Zealand (Mark Lokman, University of Otago), Australia (Abigail Elizur), Spain (Francesc Piferrer) and Greece (Elena Sarropoulou).

PhD Project Aims 1. Describe the reproductive physiology of snapper in captivity to provide a basis for photoperiod manipulations and the appropriate timing for hormone-induced spawning. 2. Investigate the role of epigenomic patterns, including DNA methylation and non-coding RNAs, in regulating gametogenesis. 3. Investigate the DNA methylation patterns in gonad development in this protogynous hermaphroditic species.

This PhD project will provide an excellent opportunity to learn the latest interdisciplinary technologies and apply them to better understand reproduction and fish (epi)genomics. The PhD student will gain experience working in academic and government institutions. They will be a member of a highly active and collaborative group of researchers, and help develop new technological approaches and applied-genomic tools.

The Candidate and how to Apply The successful candidate will be a highly motivated researcher with a strong background in laboratory techniques and computational approaches. Molecular laboratory work and data analysis of next generation sequencing data will be the main workload of the project. Therefore, knowledge and experience of a scripting language (Python/Perl) is beneficial. A proven ability and motivation to write research papers is essential.

Students will be enrolled at the University of Auckland but primarily based in Nelson (<http://www.nelsonnz.com>). We will provide a three-year scholarship that provides a stipend and university (domestic-level) fees.

Applicants should send a CV, contact details of two academic referees and a cover letter that states why you are interested in the position and how your qualifications and experience make you a good fit for the proposed research. Send these to Maren Wellenreuther (Maren.Wellenreuther@plantandfood.co.nz). Candidate selection will begin in July, but applications will be considered until the position is filled. The ideal starting date is 1 June/July 2022. New Zealand applicants with strong academic record are encouraged to apply.

Ngâ mihi, Maren

Maren Wellenreuther Science Group Leader, Plant and Food Research, Nelson, New Zealand Associate Professor, University of Auckland, Auckland, New Zealand

Email: Maren.Wellenreuther@plantandfood.co.nz Mobile: +64 (0) 22 357 5802 Homepage: <http://www.marenwellenreuther.com> Twitter: @MarenWellenreuth

T: +64 3 989 7658 M: +64 22 357 5802 E: Maren.Wellenreuther@plantandfood.co.nz W: www.plantandfood.co.nz

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BielefeldU FungalGenomicAnalysis

3-year PhD position: Genomic analysis of dispersal and adaptation in porcini mushrooms

With Prof Joe Hoffman (Bielefeld University, Germany) together with collaboration partners Prof. Bill Amos (Cambridge University), Dr. Kanchon Dasmahapatra (University of York, UK), Prof. Bryn Dentinger (University of Utah, USA), Prof. Thorunn Helgason (University of York, UK), Dr. Minou Nowrouzian (Ruhr-Universität Bochum, Germany), Dr. Ulrike Damm (Senckenberg Museum of Natural History, Görlitz, Germany) and Dr. Fernando Martínez Peña (Agri-food Research and Technology Center of Aragon, Spain).

An outstanding opportunity is available for a PhD student to work on the evolutionary genomics of porcini mushrooms. The position is available in Joe Hoffman's research group (www.thehoffmanlab.com) at the Department of Animal Behaviour at Bielefeld University and is fully funded for three years. It will combine fieldwork in Germany, the UK, France and Spain with lab-based bioinformatic analysis of next generation sequencing data.

The project: Ectomycorrhizal fungi (EMF) are critical components of terrestrial ecosystems that play essential roles in nutrient recycling. Consequently, there is a pressing need to study their population dynamics and life histories so as to better understand how ecosystems function and persist. In particular, we need to learn how EMF disperse, colonise new habitats, adapt to their hosts and, in the longer term, speciate. This project will focus on the iconic edible mushroom, *Boletus edulis*, known variously as the penny bun, cèpe de Bordeaux, porcino or Steinpilz. It will exploit a large collection of *B. edulis* samples to deliver arguably the most comprehensive population genomic study of any wild fungus. Systematic repeated sampling of multiple woodland patches from Bielefeld (Germany) and Thetford Forest (UK) will be used to investigate fine-scale patterns of dispersal, population structure and adaptation to different tree hosts. Overall, this project will produce a detailed picture of how EMF populations become established, spread and evolve. Understanding these processes is essential for predicting ecosystem responses to climate change.

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

The working environment: The PhD student will be based at the Department of Animal Behaviour at Bielefeld University, Germany (www.uni-bielefeld.de/biologie/vhf/index.html). The department is the oldest of its kind in Germany and currently hosts seven principal investigators, nine postdocs and 15 PhD students. It offers a stimulating, supportive and highly international environment as well as an excellent research infrastructure. The working language of the Department is English.

Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoberger Wald for hiking and other outdoor pursuits. It is an affordable and pleasant city to live in and is well connected to most major European cities.

The PhD student will be based at Bielefeld University but will have ample opportunities to interact with the international collaboration partners, who bring additional expertise in molecular ecology (Bill Amos), speciation genomics (Kanchon Dasmahapatra), fungal biology (Bryn Dentinger), plant-fungal interactions (Thorunn Helgason), fungal mating system evolution (Minou Nowrousian), fungal systematics (Ulrike Damm) and mycological conservation (Fernando Martínez Peña). The successful applicant will therefore benefit from an integrative, multidisciplinary training that will prepare her/him very well for a scientific career in molecular ecology / fungal biology / population genomics / conservation biology.

Remuneration: This generous PhD studentship is funded by the German Science Foundation (DFG) for a period of three years and includes health insurance. The pay scale is TVL E13 (65%). Funding will also be available for travel and for the student to attend workshops and conferences.

Application procedure: To apply for this position, please provide: (i) a letter of motivation including a maximum 2-page statement of your research interests, relevant skills and experience; (ii) a CV including publication list; (iii) names and contact details of two referees willing

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Boku-Venna BioinformaticsOrPopGenetics

A 3 year PhD position is available at the institute for integrative conservation research, University of natural resources and life sciences, (Boku) Vienna, to support the molecular biodiversity laboratory, with focus on data analysis. Research at the laboratory emphasize barcoding and metabarcoding applications as well as genotyping using high through put methods. The position is embedded in a project that provides resources for population genetic analysis for forest trees. Hereby a marker system based on amplicon sequencing and an allele call that uses length and SNP information had been developed. The analysis involves a series of python scripts which allow a standardized procedure for allele call and the construction of a genotype matrix. The position is expected to be involved in optimization of the python scripts and in improvement of the interface and operability of the pipeline. In addition, the method allows to automatically include new data into existing matrices. The pipeline should be adapted to include this functionality which includes design and implementation of a database for the management of genotyping data.

The ideal candidate has a background in Bioinformatic or Biology with relevant experience. Funding is available as a 75% B1 position on the master level for 3 years. The focus of the position can be broadened to develop a PhD thesis in the field of population genetics, bioinformatics or related fields. The position will be open until filled, applications sent until Feb.15th will be fully considered.

For further information and to apply please contact:

Harald Meimberg, meimberg@boku.ac.at

Brno Czechia FishBroodParasitism

Ph.D. position on coevolutionary dynamics in brood parasitism in fish

**applications until 14 March 2022

REICHARD LAB (www.reichardlab.eu)

Institute of Vertebrate Biology, Czech Academy of Sciences, Brno

One funded PhD student position is available at the Institute of Vertebrate Biology, Czech Academy of Sciences, located in Brno, Czech Republic. Formal start of PhD. study is expected in September 2022, potential earlier start can be financially supported.

**The successful candidate will work on brood parasitism, primarily on the cuckoo catfish and their cichlids hosts and/or bitterling fishes and their mussel hosts using experimental, molecular or theoretical modelling methods/approaches. There is flexibility in the topic within the large research project.

**RESEARCH PROJECT:

The Expro-funded project uses brood parasitic fishes to study how co-evolutionary processes and ecological interactions shape biodiversity at local and global scales. Using two fish systems that are highly amenable to laboratory and field studies (cuckoo catfish and bitterling), we employ comparative and experimental approaches to understand how coevolution drives and constrains diversification. In particular, we aim to identify the origin and early evolution of host specificity, quantify large-scale patterns of host specificity and their association with parasite traits and diversification, and measure the constraints and benefits of host specificity. Field and lab studies are combined with population genetics, phylogenetics and mathematical modelling.

For experimental work, access to well-equipped fish breeding facility and an outdoor mesocosm system is granted.

QUALIFICATIONS - MSc. in Biology or a related discipline. Experience with experimental work using fish, molecular laboratory work and/or mathematical modelling of evolutionary processes is welcome.

No TUITION, decent SALARY from the research project and STIPEND from the Masaryk University (expected enrolment at Masaryk University in Brno) ensure an income for very good standard of living.

APPLICATION PROCEDURE

For applications, please submit a CV and explain your motivation to apply for this position in your Cover Letter (single page is sufficient). Email your application to reichard@ivb.cz.

All applications submitted until 14 March 2022 will be fully considered. Formal application to the university must be completed by 31 March 2022 (to start in September 2022). Selected candidates will be interviewed online.

For informal enquires and more details, feel free to email reichard@ivb.cz

Martin Reichard <reichard@ivb.cz>

CharlesU PlantPolyloids

***Ph.D. position about the role of temperature in the origin and evolutionary success of Arabidopsis polyploids

Group of Plant Evolutionary CytoGenomics (Roswitha Schmickl) and Group of Ecological Genomics (Filip Kolář) Department of Botany, Charles University, Prague, Czech Republic <https://lab-allience.natur.cuni.cz/plantevocytogen/people-research> <https://botany.natur.cuni.cz/ecolgen> Whole genome duplication (polyploidisation) is a dramatic and widespread mutation in nature, however, with controversial impact on adaptation and diversification. The frequency of polyploid origins and the manifestation of the adaptive potential of polyploidy is dependent on the thermal environment. A cold environment promotes the formation of unreduced gametes, directly affecting polyploid formation and establishment, and it alleviates the initial meiotic shock by restoring fertility in nascent polyploids, providing novel opportunities for polyploid adaptation and expansion. This project about the role of temperature in the origin and evolutionary success of polyploids will be done in close collaboration with the group of Polina Novikova at the Max Planck Institute for Plant Breeding Research, Cologne, Germany, including short term research stays.

**Requirements The successful candidate should bring a broad and strong interest in evolutionary biology. Methods within the project will focus on ecological experiments, genomics of adaptation, and cytogenetics. Previous experience in these fields is beneficial but not strictly required. Excellent communication skills are required for this position, as the candidate will become part of an international team and international collaborations.

**What we offer A creative and supportive scientific atmosphere, which will give you the opportunity to develop your scientific career. You will experience a fun mix of the Czech and international scientific environment, which, together with the vibrant cultural life of Prague, will provide you a unique research and life experience.

**Send your application via the STARS programme

of Charles University <https://stars-natur.cz/phd-positions/biology/the-role-of-temperature-in-the-origin-and-evolutionary-success-of-arabidopsis-polyploids?back=0tif0> Reviewing of applications will begin on 14th March 2022 and will continue until the position has been filled. The start date is flexibel, at earliest from April 2022.

pá 18. 2. 2022 v 18:32 odesílatel Roswitha Schmickl, Ph.D. <roswitha.schmickl@natur.cuni.cz> napsal:

Roswitha Schmickl, Ph.D.

Univerzita Karlova PóirodovÁá fakulta Albertov 6, 128 43 Praha 2 www.natur.cuni.cz Charles University Faculty of Science Albertov 6, 128 43 Praha 2 www.natur.cuni.cz/en "Roswitha Schmickl, Ph.D." <roswitha.schmickl@natur.cuni.cz>

DanishTechU BioinformaticsAncientDNA

DTU Health Tech is looking for a qualified candidate for a vacant PhD position in bioinformatics. In this position, you will develop algorithms and computational methods to deal with the analysis of large datasets from modern and ancient sources. More specifically, these algorithms will be aimed at analyzing relationships between ancient and modern populations. The bioinformatics section of DTU Health Tech performs research in the areas of different metagenomics, cancer genomics and population genomics.

Responsibilities and qualifications

Current bioinformatics algorithms and software are often ill-equipped to deal with DNA extracted from ancient sources. This ancient DNA shows high levels of fragmentation and accumulated chemical damage. Furthermore, ancient sediments often contain DNA from multiple species and often multiple individuals. Fortunately, several problems pertaining to ancient DNA can be described in a maximum-likelihood framework and computer science techniques can help us to solve such numerical problems efficiently via numerical algorithms and data structures. You will work in collaboration with other partners including the University of Copenhagen and McMaster University in order to develop the next generation of algorithms and software applied to DNA extract from fossils, ancient soils and sediments.

You must have a two-year master's degree (120 ECTS points) or a similar degree with an academic level equiv-

alent to a two-year master's degree in addition to a bachelor's degree (180 ECTS points).

Ideally, your degree should be in computer science, mathematics or biological science with a focus on quantitative and mathematical aspects.

More specifically you should ideally have the following qualifications:

- * Knowledge of a programming language like Python, Perl, C++ and/or Java (C/C++ is preferred)
- * Ability to work in a UNIX environment, ideally in a high-performance computing environment
- * Thorough understanding of basic algorithms and data structures used in computer science
- * Knowledge of probabilities and statistics
- * Firm grasp of first-year university mathematics (differential calculus/linear algebra)
- * Experience in bioinformatics and knowledge of metagenomics is a plus
- * Expertise in next-generation sequencing data generation and processing is also a plus

The language of communication at DTU is English.

Application Apply no later than 12 December 2021

Apply at <https://www.dtu.dk/english/about/-job-and-career/vacant-positions/job?id=9e7988a4-31e5-4bc3-a9fc-9230c24f347c> Gabriel Renaud <gabriel.reno@gmail.com>

GlobeInst UCopenhagen AirborneEnvironmentalDNA

PhD fellowship in airborne environmental DNA at the Globe Institute, University of Copenhagen

We offer a 3-year PhD fellowship in airborne environmental DNA commencing 1 May 2022 or as soon as possible hereafter. The project is funded by the Carlsberg Foundation.

Project description You will work on the newly funded Carlsberg Foundation Young Researcher Fellowship awarded to Associate Professor Kristine Bohmann to form a research team dedicated to establish the use of airborne environmental DNA for terrestrial vertebrate monitoring.

In addition to state-of-the-art environmental DNA laboratory and computational workflows, the team will bridge disciplines through collaboration with a strong group of national and international collaborators to fine-tune the technique, expand it to natural environments,

and apply it to biodiversity studies and standardised surveys. You will take an active part in the overall team's work and will work with both national and international collaborators and team members. You will work especially close with the team members based in Copenhagen.

The project involves further development of the technology for use in natural settings, exploration of challenges, opportunities and limitations, and the use of metabarcoding of airborne environmental DNA for vertebrate detection in applied contexts. This can include design and optimisation of air samplers, design of experiments in different natural ecosystems as well as in more controlled settings and comparison to existing monitoring methods. There will be flexibility to shape the PhD fellowship within this framework.

The PhD Fellow will be supervised by Associate Professor Kristine Bohmann and co-advised by Associate Professor Tobias Frøslev and Postdoc Christina Lynggaard, all from Globe Institute, University of Copenhagen.

Deadline: 27 February 2022

Further details: <https://employment.ku.dk/all-vacancies/?show=155725> Kristine Bohmann
<kbohmann@sund.ku.dk>

JohnsHopkinsU GrasslandPlantEvolution

We are seeking postdoctoral and graduate student applicants from diverse backgrounds to participate in a fully funded working group focusing on exploring the role of evolutionary processes in long-term ecological research, with an emphasis on grassland plants. The aim of this working group is to facilitate collaborations between ecologists and evolutionary biologists by realizing the opportunity that Long-Term Ecological Research (LTER) sites provide for conducting eco-evolutionary research.

Biologists increasingly recognize that ecological and evolutionary processes are closely linked. This is particularly relevant in the context of global change, where environmental conditions may change rapidly, and species may adapt to the novel conditions in a comparable timeframe. Unfortunately, studies that examine the interactions and feedback loops between evolutionary and ecological processes, particularly in long-term ecological studies, are rare. The working group will address this

problem by first identifying barriers that exist to developing evolutionary biology work at LTER sites and, second, identifying possible solutions. In doing so, the working group will develop a framework for how to best implement future eco-evolutionary research in a long-term ecological research context. Lastly, the main goal of this working group is to unite early-career ecologists and evolutionary biologists with postdoc and graduate students to create a new cohort of eco-evolutionary scientists!

The working group will be held at Sevilleta National Wildlife Refuge LTER < <https://unmsevilletafieldstation.wordpress.com/> > in La Joya, NM on May 9th-12th, 2022. We expect participants will arrive Sunday night (May 8th) and depart Friday morning (May 13th). Travel to/from and accommodation at the UNM Sevilleta Field Station will be provided, and all meals will be catered for the duration of the working group. There will be no costs for participants. The format will be a daily morning plenary, followed by break-out focus groups, evening graduate and postdoc posters, and informal discussion. Please be aware that we will be abiding by CDC guidelines and requiring proof of vaccination to attend in-person. Remote participation will also be available to those who cannot or do not feel comfortable attending in-person. Our goal is to hold a productive meeting where all feel safe and comfortable - as such, we will be monitoring the ever-changing situation and making changes when necessary!

The organizers of the working group greatly value diversity, equality of opportunity, and human dignity. Scientists who are LGBTQ+, Black, Hispanic, Latin(o/a), Indigenous, Asian, Asian American, Pacific Islander, two or more races/ethnicities, or veterans are especially encouraged to apply. To apply, email Jenny Cocciardi (jenny.cocciardi@jhu.edu) with the subject line "EvoLTER Working Group Application" with; 1) a copy of your CV, 2) an abstract describing research that you would like to present on at the working group (limit 300 words), and, 3) a one-page diversity, equity, and inclusion statement describing your experiences and commitment to advancing diversity, equity, and inclusion in STEM. The research may be in the fields spanning ecology and evolutionary biology, but preferably with an element of both (including, but not limited to; plant eco-evo-devo biology, global change ecology, adaptation to climate change, phenology, plant physiology and morphology, phenotypic plasticity, quantitative genetics and genomics, community ecology, population genetics, etc.). Applications are due March 4th and applicants will be notified of the decision to attend by March 14th, 2022. Undergraduate students who have conducted research

that they feel fits well with the working group's main aims may also apply. Applicants are encouraged to email Jenny Cocciardi (jenny.cocciardi@jhu.edu) with any questions and inquiries on the working group!

<jenny.cocciardi@jhu.edu>

LeibnizInst Bonn GenomicsOfSexChromosomes

Dear EvolDir Community

Two PhD student positions are open in the Comparative Vertebrate Genomics group at Zoological Research Museum Alexander Koenig, Bonn, Leibniz Institute for the Analysis of Biodiversity Change LIB

For full descriptions and how to apply please see here: <https://bonn.leibniz-lib.de/en/job-portal> Closing date: February 27, 2022

— Genomics of sex chromosome evolution in African cichlids — The mechanisms of sex determination are diverse despite their unifying function in defining male and female sex within a species. This project focuses on the investigation of sex chromosomes in a model system of evolutionary biology, the African cichlid fishes, in which we previously identified an outstandingly high rate of sex chromosome turnover. We will here submerge deeper into the sex chromosome history of African cichlids, zoom into particular species with previously identified sex chromosomes to study convergent evolution, perform crosses and focus on the genomic signatures underlying transitions between sex chromosomes. To understand how sex is established and maintained at the molecular level, we will also analyze gene expression as well as the regulatory signatures activating and silencing gene expression in males and females.

— Collectomics of vertebrates — High-quality genomes are an important basis for biological and evolutionary research. However, generating assemblies of high completeness and contiguity requires ideally fresh, flash-frozen samples. The availability of such samples has become a major limitation for biodiversity genomics, in particular for rare or endangered species, or species inhabiting remote regions. Museum collections house millions of samples. Here we will use museum samples to unlock collection treasures for genome sequencing and analyses. This project is part of a collaboration with LOEWE-Center for Translational Biodiversity Genomics (TBG), Senckenberg Research Institute, Dresden

concept Genome Center, the Museum für Naturkunde Berlin and the Institute for Zoo and Wildlife Research Berlin.

Application Information: To apply, please submit a single document as pdf including: - a motivation letter explaining your interest in the project and your matching prior experience (1-2 pages) - a detailed CV including contact information for 2 potential references - transcripts of your academic certificates and credentials <https://bonn.leibniz-lib.de/en/job-portal> Equity: The LIB is a family-friendly institution and an equal opportunity employer. We are committed to increasing the proportion of women in academics. Consequently, we actively encourage applications by women. We also welcome applications from candidates with severe disabilities. Disabled candidates with equivalent qualifications will be preferentially considered. We are committed to welcoming and supporting candidates from all nations as well as to fostering a diverse team and will positively consider candidates from under-represented groups and all genders (m/f/d).

Dr. Astrid Böhm Head of section Comparative Vertebrate Genomics a.boehne@leibniz-zfmk.de

Dr. Astrid Böhm Center for Molecular Biodiversity Research ZFMK - Zoological Research Museum Alexander Koenig LIB - Leibniz Institute for the Analysis of Biodiversity Change

Mail Address Adenauerallee 127 53113 Bonn, Germany email: a.boehne@leibniz-zfmk.de phone: +49 228 9122-365 web: <https://bonn.leibniz-lib.de/en/zfmk/astrid-boehne> - Zoologisches Forschungsmuseum Alexander Koenig - Leibniz-Institut für Biodiversität der Tiere - Adenauerallee 160, 53113 Bonn, Germany www.zfmk.de Stiftung des öffentlichen Rechts; Direktor: Prof. Dr. Bernhard Misof Sitz: Bonn

Böhm Astrid <A.Boehne@leibniz-lib.de> Böhm Astrid <A.Boehne@leibniz-lib.de>

London EvolutionTransposableElements

A fully funded PhD position in the laboratory of Dr. Alex de Mendoza at Queen Mary University of London (United Kingdom). This is a PhD studentship for 3 years, that covers UK "home status" fees and an annual stipend. International applicants are welcome to apply, although the funding for the international fees would

need to be discussed upon selection of the candidate.

The PhD project aims to explore the evolutionary race between transposable elements and the host chromatin environment. The project will combine molecular biology techniques (Nanopore sequencing, ChIP-seq) with bioinformatics. Previous experience in molecular biology and evolutionary biology would be beneficial. An MSc in fields related to molecular biology, epigenetics, bioinformatics or related topics is also recommended.

Find link to the application and project details here:

<https://www.findaphd.com/phds/project/host-gene-capture-by-transposable-elements-in-eukaryotic-genomes/?p141199> Applications close on February 28th. All you need is:

- 1.- Curriculum vitae (CV).
- 2.- Motivation letter.
- 3.- Two reference letters.

Potential candidates should not hesitate to get in touch with a.demendozasoler@qmul.ac.uk to discuss your interest in the posts and the projects, even if you cannot make it to the deadline.

More information on the group, publications and research topics in the group can be found in the laboratory website: <https://www.demendozalab.com/> Research environment:

Queen Mary University of London and the School of Biological and Chemical Sciences are in London's East End, and hosts a vibrant community of researchers with complementary expertise in evolutionary genomics and EvoDevo (<https://www.qmul.ac.uk/sbbs/about-us/our-departments/biology/>), with access to state-of-the-art computational resources and genomics facilities. Furthermore, we are part of the Epigenetics Hub, a highly integrated group of researchers with different expertise in different aspects of epigenetics, from basic to applied research: <http://qmulepigenetics.com/home> Alexandre de Mendoza Soler <a.demendozasoler@qmul.ac.uk>

LundU EvolutionaryBiology

I am looking to recruit a PhD student interested in evolutionary biology and ecotoxicology. The student would have the opportunity to use a variety of approaches (phylogenetic comparative methods, lab/field experiments with insects, quantitative genetics) to understand how toxicant sensitivity evolves over both short and deep timescales, with substantial latitude to develop the project into their own.

The position is fully funded for 4 years. The Department of Biology at Lund University is a dynamic and international research environment, and Sweden is a wonderful place to do a PhD.

Deadline to apply: March 4 2022

For more details on the project and to apply, visit: <https://lu.varbi.com/en/what:job/jobID:470162/-iframeEmbedded:0/where:4> For questions, email Stephen De Lisle: stephen.de.lisle@biol.lu.se

Stephen De Lisle <stephen.de.lisle@biol.lu.se>

LundU EvolutionaryPotential

Attractive 4 year PhD-position at Lund university within a project addressing how and why wild populations vary in their evolutionary potential. The goal will be to monitor selection and genetic variation in wild populations of green tortoise beetles *Cassida viridis* over time and space. This insect system enables studies of selection and adaptation not only in the lab, but also in the field in multiple free-ranging populations along environmental gradients. The outcomes will increase our capacity to predict evolution and to understand how populations respond when encountering a changing or novel environment.

The doctoral student be a part of the Evolutionary Ecology of Plant Insect Interactions group at the Department of Biology, Lund University. For further information, please contact the main supervisor Maja Tarka (maja.tarka@biol.lu.se)

Please find more information and apply here:

<https://lu.varbi.com/en/what:job/jobID:473205/-type:job/where:4/apply:1>
 Anna Runemark
 <anna.runemark@biol.lu.se>

MaxPlanckInst Ploen ModellingCooperation

The research group Dynamics of Social Behavior explores under which conditions individuals cooperate. To this end, we translate social interactions into mathematical games. These games can then be explored analytically, with computer simulations, and with behavioral experiments.

Our group currently consists of six members (including two PostDocs and three PhD students), with backgrounds in mathematics, physics, psychology, and economics. The group members have a wide range of competences, including mathematical modeling, game theory, network theory, machine learning, data analysis and computer programming.

We are looking for motivated researchers to join us. Our website: <http://web.evolbio.mpg.de/social-behaviour/>. PhD Position (3 years) Mathematical modelling and data driven analysis of cooperation in stochastic games

One key mechanism for cooperation is repetition. People are more likely to help somebody if they have a chance of meeting them again. Most existing models of repeated games assume that when a set of people interact over multiple rounds, the rules of their interactions remain constant, and are independent of the outcomes of previous interactions.

The project aims to develop and analyze models of repeated games that capture the idea that people's actions affect the rules of their future interactions. Furthermore, the project aims to explore such situations using a data driven analysis.

Applicants should have a degree in mathematics, computer science, economics, physics, or another related field. They should be curious to describe social behaviors mathematically and to analyze data. Ideally, they are already familiar with the theory of Markov chains and stochastic processes, and have some experience in programming and data handling (e.g. Python, R, Matlab, SQL, ...). Good quantitative skills will be important.

Working environment

The Max Planck Research Group "Dynamics of Social Behavior" has been established in October 2019, and is led by Dr. Christian Hilbe. The group organizes a weekly group meeting in which the group members have an opportunity to present their ongoing work and to discuss current research, and to invite and learn from guest speakers. The group has hosted several guest speakers in the last year; all experts in the field of social behavior with diverse backgrounds.

The group is a part of the Max Planck Institute for Evolutionary Biology in Plön, Germany. The Institute has three departments (Evolutionary Theory, Microbial Population Biology, Evolutionary Genetics) and several additional research groups. The group is well connected to the Department for Evolutionary Theory led by Prof. Arne Traulsen, which offers further seminars and a weekly journal club.

In addition, the research group maintains strong collaborations with external researchers, including researchers from Harvard University, IST Austria, and the University of Exeter.

Plön is a small town close to the Baltic Sea, embedded into a beautiful landscape with innumerable lakes. The area provides ample opportunity for free time activities such as swimming, canoeing, or biking in a stunning environment. The cities of Kiel and Lübeck (≈200,000 inhabitants) are only half an hour train ride away. Hamburg (Germany's second largest city) can be reached within 1.5h by train.

Application

Interested students should send their application (motivation letter, CV, copies of certificates, contact details of two references) by email to toglynatsi@evolbio.mpg.de. Please use the code "PhD2022" in the subject line.

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds. The Max Planck Society is committed to employing more disabled individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

For further questions, please get in contact with Dr. Nikoleta E. Glynatsi. The application deadline is March 2, 2022. However, the positions will remain open until filled by qualified candidates.

Contact

Dr. Nikoleta E. Glynatsi

Research Group Dynamics of Social Behavior
 Max Planck Institute for Evolutionary Biology, Plön, Ger-

many Website: <https://nikoleta-v3.github.io> Email: glynatsi@evolbio.mpg.de

Link to the Institute's advertisement: https://www.evolbio.mpg.de/3584989/job_full_offer_18186132
 "Nikoleta E. Glynatsi" <glynatsi@evolbio.mpg.de>
 "Nikoleta E. Glynatsi" <glynatsi@evolbio.mpg.de>

New Zealand Biofouling Community Biodiversity

PhD Scholarship to assess the temporal and spatial community composition of marine biofouling using eDNA

We are seeking a highly motivated PhD student to be part of a group investigating the temporal and spatial community changes of biofouling using eDNA methods. Candidates will apply phylogenetic and comparative methods to understand community composition and associated changes, and relate these to the wide abiotic and biotic environment.

Project background and wider context Plant and Food Research (PFR) is making a significant investment in developing the knowledge, capability and innovations needed to undertake the aquaculture of fish at open ocean sites around Aotearoa. Biofouling of marine structures has been identified as a hurdle to farming in the open ocean, and a five year programme called New Open Ocean Ecosystems was designed and launched in 2021 to study the poorly understood topic of biofouling of aquaculture materials at exposed NZ sites. The PhD project will form part of this research programme, specifically, the student will develop a standardised and replicated sampling array for assessing the composition of marine biofilms. To adequately characterise community composition the student will apply optimised DNA extraction methods to extract high quality DNA for metabarcoding to characterize marine bacterial and eukaryotic biofouling communities (Zaiko et al., 2016, Pochon et al., 2015, von Ammon et al., 2018a, Briand et al., 2018, von Ammon et al., 2018b, Zaiko et al., 2020). Sampling will initially be undertaken at an easily accessible inshore location (e.g. Beatrix Bay, Nelson Haven) with the aim of extending these protocols to samples from more exposed open ocean aquaculture sites, to better understand the sources and vectors of propagules and to improve management of biofouling-related risks. Temporal and spatial variation among biofilm settlement will be assessed against the most relevant parameters identified. Additionally filtered planktonic

eDNA samples will be collected in close proximity to the settlement arrays to examine linkages between planktonic and settled communities. The opportunity to include eRNA approaches as a proxy for the living portion of the biofouling community will be considered and discussed (Pochon et al., 2017, Wood et al., 2020).

The PhD project will incorporate a range of cutting-edge, next-generation sequencing (NGS)-based techniques to better understand the colonisation process on artificial surfaces and link what is present in the plankton to what occurs in the fouling community under a range of fouling-control conditions. The PhD student will gain experience working in academic and government institutions. They will be a member of a highly active and collaborative group of researchers, and help develop new technological approaches and applied-genomic tools.

The specific PhD project aims are: (i) catalogue the primary colonizers and their phylogenetic relationships and document successional stages and seasonal changes, (ii) understand the impact of the spatial location and associated environmental factors on biofilm community composition, and (iii) compare the biofilm-forming and planktonic bacterial community.

The proposed topic leaves sufficient freedom in the selection of specific aspects and the design of a research plan for the doctorate candidate.

How to apply Applicants should send a CV, contact details of two academic referees and a cover letter that states why you are interested in the position and how your qualifications and experience make you a good fit for the proposed research. Academic qualifications are considered alongside significant relevant non-academic experience. Send these to Maren Wellenreuther (Maren.Wellenreuther@plantandfood.co.nz) and Peter Bell (Peter.Bell@plantandfood.co.nz). Applications will be considered until the position is filled. Students will be enrolled at the University of Auckland but be based in Nelson (<http://www.nelsonnz.com/>). We will provide a three-year scholarship that provides a stipend and university (domeWarning: base64 decoder saw premature EOF! stic-level) fees.

Supervisors 1. Main supervisor: Associate Professor Maren Wellenreuther, Auckland University and Plant and Food Research, Nelson, New Zealand. <https://unidirectory.auckland.ac.nz/people/profile/m-wellenreuther> 2. Co-supervisor: Peter Bell, Plant and Food Research (PFR), Nelson, New Zealand. 3. Co-supervisor: Associate Professor Xavier Pochon, Cawthron Institute (Nelson) and Auckland University, New Zealand.

NgĀĀ mihi, Maren

Maren Wellenreuther Science Group Leader, Plant and Food Research, Nelson, New Zealand Associate Professor, University of Auckland, Auckland, New Zealand

Email: Maren.Wellenreuther@plantandfood.co.nz Mobile: +64 (0) 22 357 5802

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Paris AI and EcoEvolution

A PhD position on « Creating AI/ML techniques to enhance mechanistic eco-evolutionary computer simulations » is available in H el ene Morlon's research group at the Biology Institute of the Ecole Normale Sup erieure in Paris (France), in collaboration with Florian Hartig at the University of Regensburg (Germany) and Loic Pelissier at the ETH Zurich (Switzerland). The PhD is part of a Horizon 2020-COFUND European doctoral program « Artificial Intelligence for the Sciences » and will start in September 2022. Deadline for application: February 23rd 2022.

Applicants should not have lived or carried out their main activity (work, studies, etc.) in France for more than 12 months in the 3 years immediately before the deadline of the call (MSCA Mobility rule), namely between February 11, 2019 and February 23, 2022.

Link to the project < <https://euraxess.ec.europa.eu/jobs/717645> >

Link to the doctoral program <[https://psl.eu/en/news/2021-call-applications-artificial-intelligence-sciences-doctoral-program?ct=t\(EMAIL_CAMPAIGN_2_11_2022_8_16\)](https://psl.eu/en/news/2021-call-applications-artificial-intelligence-sciences-doctoral-program?ct=t(EMAIL_CAMPAIGN_2_11_2022_8_16))>

If you are interested, please contact H el ene Morlon <helene.morlon@bio.ens.psl.eu> and/or Florian Hartig <florian.hartig@biologie.uni-regensburg.de>

H el ene MORLON <helene.morlon@bio.ens.psl.eu>

UAlaska Fairbanks Herring Fisheries Genetics

M.S. Assistantship: Population genomics of Pacific herring in the Bering Sea, Alaska

We are seeking a candidate for a Master of Science assistantship in Fisheries at the University of Alaska Fairbanks, College of Fisheries and Ocean Sciences. The student will develop genomic (RADseq and potentially whole-genome) datasets for Pacific herring (*Clupea pallasii*) and help conduct a fine-scale analysis of genomic variability and population genomic structure in the eastern Bering Sea. The successful candidate will work with samples from diverse sources and will have opportunities to work closely with the Alaska Department of Fish and Game's Gene Conservation Lab and NOAA's Alaska Fisheries Science Center. The vision of this project is to inform state and federal fisheries management in the North Pacific; thus a candidate with interests in genomics, conservation genetics and/or fisheries is desired.

Start Date: August 2022

Salary and Benefits: \$30,448 per year (1.5 years) will be paid through Research Assistantship. Tuition, fees and health insurance will be covered by the project. There are opportunities to serve as a TA for additional semesters.

Qualifications: Bachelor's degree in biology, evolution, fisheries, genetics, or other relevant discipline. Experience with molecular biology techniques and coding in R is desirable, but not necessary. A willingness to learn, attention to detail, and a strong work ethic are essential.

Contact: For more information about the project, please email Andr es L opez (jalopez2@alaska.edu) or Jessica Glass (jessica.glass@alaska.edu). To apply, please send the following to the email addresses above: 1) 1-page cover letter describing your interest in the position, skills, and goals 2) CV or resume, 3) unofficial transcripts, and 4) contact information for 3 references. UAF values equity, diversity and inclusion and we especially encourage applicants from underrepresented or historically excluded groups to apply. Applications will be accepted until March 4th.

Andr es L opez <jalopez2@alaska.edu>

UBern Switzerland 2 TheoreticalEcoEvo

Two PhD positions in Theoretical Ecology and Evolution

Two funded, 4-year PhD positions are available in the Division of Theoretical Ecology and Evolution (<https://banklab.github.io/>) led by Professor Claudia Bank at the University of Bern, Switzerland. The positions are part of the ERC project “FIT2GO - a toolbox for fitness landscapes in evolution”, in which we study adaptation and speciation from a fitness-landscape point of view.

The specific PhD projects will be developed individually and should broadly address some of the following questions (see also this review paper from the lab: Fragata et al., 2019, TrEE, <https://www.dropbox.com/s/wiy9doprw3nhoe2/tree.ms.pdf?dl=0>):

1. How do fitness landscapes vary across environments, and how does that affect adaptation?
2. What is the role of epistasis (i.e., the interaction of mutations for fitness) during speciation?
3. How much information on epistasis and past environmental change is maintained in genomes, and how can we extract this information?
4. Which signature do different evolutionary processes leave in genomic data?
5. How do ecology and evolution interact to shape populations and communities?

Depending on the overarching fundamental question, the projects might relate to applied problems, such as the predictability or repeatability of (drug resistance) evolution, or the probability of populations to adapt or persist in the face of the climate crisis.

Both projects will be theoretical in nature and can involve mathematical modeling, computer simulations, and/or statistical method development and data analysis. If it strengthens the project and if the student is interested, a (minor) experimental or field-work component can be included via our empirical collaborators.

Your profile

Candidates must be highly motivated, creative, and able to work independently and collaboratively. Applications from diverse scientific backgrounds (e.g., from physics, mathematics, statistics, computer science, biology) are

encouraged. In their motivation letter, applicants from outside biology should state why they are interested in the study of ecology and evolution, and applicants from biology should state why they are interested in joining a theoretical research group. Candidates must have excellent written and spoken communication skills in English, which is the working language of our institute. A Master degree is required. This position is open to applicants worldwide. We are committed to increasing diversity, equity and inclusiveness in ecology and evolution and especially encourage applications from underrepresented groups.

Work environment

The Division of Theoretical Ecology and Evolution is a dynamic, international, and interdisciplinary group. Current and former group members include trained biologists, physicists, mathematicians, bioinformaticians, anthropologists, and biochemists. As supporters of the Better Science Initiative (<https://betterscience.ch/en/>), our lab philosophy includes open and compassionate communication, regular individual meetings and evaluation of mentoring and career development needs, and prioritization of the well-being of all lab members. Our group is part of the Institute of Ecology and Evolution at the University of Bern (<https://www.iee.unibe.ch/>); we are also members of the Bern Data Science Initiative (<https://www.bedsi.unibe.ch/>) and the Swiss Institute of Bioinformatics (<https://www.sib.swiss/>). Through these structures, the PhD students will have ample opportunities for interactions and collaborations across research fields with a vibrant international community of graduate students, post-doctoral researchers, and professors. The University of Bern is situated near the heart of the beautiful old city, and the quality of life in Bern is very high, with the Swiss alps in close vicinity.

The starting date of the PhD positions is negotiable (ideally in fall 2022). The starting salary is 47,040 CHF and includes social security contributions.

Contact and Application

Please submit your application via email by 1 April 2022 to Prof. Claudia Bank: claudia.bank@iee.unibe.ch. Applicants must submit one merged PDF file that includes a letter of motivation mentioning the desired starting date (<500 words), a CV, names of two referees who should have sent their recommendation letter separately by email before the deadline, and copies of relevant publications and/or the Master thesis.

Prof. Dr. Claudia Bank Head of Division, Theoretical Ecology and Evolution Institute of Ecology and Evolution University of Bern Baltzerstrasse 6 3012 Bern

Switzerland Website: <https://banklab.github.io/>

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UCalgary VectorEctoparasiteEvolution

Graduate positions available in: Ectoparasite and Vector Evolution / Genomics

Graduate studentships (MSc or PhD) are available at the University of Calgary in the Soghigian Lab (<https://www.soghigian-lab.net/>) with a flexible start date in 2022 or 2023.

We are recruiting students interested in basic and/or applied research on ectoparasite and disease vector diversity and evolution. Potential student projects include host-parasite coevolution, the evolution of complex phenotypes critical to parasite and vector success, and population genomics of important invasive and vector species. We leverage genomic tools and evolutionary methods to answer questions across a range of scales, from population genomics of important vectors like the mosquito *Aedes aegypti*, to analyses of entire lineages using phylogenomics and comparative methods.

The graduate student will receive a competitive stipend and be enrolled in the Veterinary Medical Science graduate program (<https://vet.ucalgary.ca/future-students/-graduate-students/>), and will also be a member of the award-winning Host-Parasite Interactions (HPI) training network which comprises 19 principal investigators and 70 trainees. The HPI offers a wide array of community engagement and professional development activities (<https://ucalgary.ca/host-parasite-interactions/about>).

To learn more, please reach out to Dr. John Soghigian (john.soghigian@ucalgary.ca) with a brief statement describing research interests and a copy of your CV. Applicants will be contacted on a rolling basis, but priority will be given to applications received by March 31st, 2022.

John Soghigian, PhD Assistant Professor, Parasitology Department of Comparative Biology and Experimental Medicine Faculty of Veterinary Medicine University of Calgary, Calgary, Alberta

John Soghigian <john.soghigian@ucalgary.ca>

UExeter Abu Dhabi Avian Evolution Behaviour

Personality traits and cognitive abilities in captive-bred North African houbara bustards

Academic Supervisors: Dr Joah Madden <http://psychology.exeter.ac.uk/staff/index.php?web_id=-Joah_Madden>, University of Exeter Dr Enrico Sorato, Reneco International Wildlife Consultants, Abu Dhabi (esorato@reneco-hq.org)

Location:

Psychology, Streatham Campus, Exeter

The University of Exeter's College of Life and Environmental Sciences, in partnership with Reneco International Wildlife Consultants, is inviting applications for a PhD studentship to commence in March 2022 or as soon as possible thereafter. The studentship is to investigate personality traits and cognitive abilities in a captive-bred population of North African houbara bustards (*Chlamydotis undulata undulata*).

Project Description: The endangered North African houbara bustard (*Chlamydotis undulata undulata*) has been declining drastically throughout its range due to overhunting and habitat degradation. Since the late 90s the species has been the subject of a large-scale captive breeding programme at the Emirates Center for Wildlife Propagation, Missouri, with more than 15 000 birds produced annually for release in the wild. The intention of this rearing and release is to restore wild populations and supplement hunting grounds for regulated falconry (<http://www.houbarafund.org>). Houbaras are bred using an artificial insemination process following a strict genetic management (pedigree-based), designed to increase genetic diversity and avoid inbreeding depression (Rabier et al. 2020, 2021). However, past research (Charge et al. 2013, 2014) and ongoing analyses (E Sorato) have provided evidence for among-individual differences in sexual behaviour and life history traits partly associated with origin (captive-bred vs wild-origin individuals), which may arise through genetic adaptation to captivity and parental effects. Still, the relative extent to which genetic changes and environmental effects may affect personality, cognitive traits, and ultimately fitness in the wild, remains to be explored.

The successful applicant will investigate the effects of

captive-breeding on personality traits, by conducting behavioural tests on captive houbaras throughout ontogeny. Interplays between personality and individual cognitive abilities (discriminative and reversal learning) will also be explored. By testing individuals with varying known histories of captive breeding, and by using quantitative genetics statistical methods, we will assess the extent of adaptation to captivity and disentangle the relative impact of additive genetic, parental and environmental effects on the main personality axes, and on interplays between personality and cognitive traits. This study will contribute to unravel the selection forces shaping variation in personality and cognitive traits and will ultimately aid improve conservation breeding of endangered species / houbara bustards.

References Charg̃il¹/₂, R., Teplitsky, C., Hingrat, Y., Saint Jalme, M., Lacroix, F., & Sorci, G. (2013). Quantitative genetics of sexual display, ejaculate quality and size in a lekking species. *Journal of Animal Ecology*, 82(2), 399-407.

Charg̃il¹/₂, R., Sorci, G., Saint Jalme, M., Lesobre, L., Hingrat, Y., Lacroix, F., & Teplitsky, C. (2014). Does recognized genetic management in supportive breeding prevent genetic changes in life-history traits? *Evolutionary Applications*, 7(5), 521-532.

Rabier, R., Robert, A., Lacroix, F. & Lesobre, L. (2020). Genetic assessment of a conservation breeding program of the houbara bustard (*Chlamydotis undulata undulata*) in Morocco, based on pedigree and molecular analyses. *Zoo Biol.* 39, 365-447.

Rabier, R., Lesobre, L. & Robert, A. (2021). Reproductive performance in houbara bustard is affected by the combined effects of age, inbreeding and number of generations in captivity. *Sci Rep* 11, 7813 (2021)

Working environment: The project is part of a collaboration between Dr Enrico Sorato (Reneco International Wildlife Consultants; ECWP) and Dr Joah Madden (Centre for Research in Animal Behaviour, University of Exeter) investigating the behavioural, life history and fitness consequences of captive breeding in the houbara bustard. The student will be based in UK at Exeter, supervised by Dr Joah Madden. Fieldwork will take place at the Emirates Center for Wildlife Propagation in Missour, Eastern Morocco, starting in Spring 2022, under the supervision of E Sorato. Besides Morocco, the student will also be expected to spend time at the Reneco HQ in Abu Dhabi, UAE, to conduct data analysis. This award provides annual funding to cover Home or International tuition fees for three years. Research costs, associated travel, and any on-site accommodation,

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Ulethbridge Population Genomics Amphibians

Population genomics in amphibians

The Lee-Yaw lab at the University of Lethbridge is looking for a PhD student interested in using population genomic data to address fundamental and/or applied questions in evolutionary ecology and conservation with a focus on amphibians.

Research activities and potential projects:

The successful candidate will work alongside others in the lab to generate population genomic data for amphibian species of conservation concern in Canada. Potential areas of investigation include (but are not limited to): 1) Testing alternative evolutionary explanations for range limits; 2) Assessing the effects of disturbance and landscape features on gene flow; 3) Examining hybrid zone dynamics; 4) Investigating adaptation along elevational gradients; or 5) Using genomic data to inform amphibian reintroductions.

Depending on the student's interests, fieldwork is possible (but is not required). There are also opportunities to pair genomic data with spatial data analysis or with experimental or observational work using state-of-the art aquatics facilities at the Water Institute for Sustainable Environments at U of L.

Skills and Experience:

Prior experience in a molecular lab (pipetting, DNA extractions and quantification) is required. Priority will be given to candidates who also have experience with the analysis of genetic data and/or bioinformatics (or related coursework).

Please note: available funding guarantees support for a Canadian resident or citizen. However, International students who qualify for tuition support and/or who are eligible for external funding are welcome to contact me. All applicants will be encouraged to apply for external stipend support.

Application details and procedure:

The preferred start date is September 2022. However, we may be able to accommodate an earlier or later start

date. Applications will be received until the position is filled. However, formal application for admission to U of L is due May 1 for a September start date.

If you are interested in applying, please send an email to Julie Lee-Yaw at: [julie.a.leeyaw <at> gmail.com](mailto:julie.a.leeyaw@gmail.com) (temporary email until April 2022).

Please use the subject line "Graduate Studies" and include 1) a brief statement of research interests and relevant experience, 2) a current CV, and 3) unofficial copies of academic transcripts. Please also indicate your preferred start date.

Additional Information:

The Lee-Yaw lab is a new and growing lab. We strive to maintain an inclusive and highly supportive environment. We welcome applications from students with diverse backgrounds, perspectives, and experiences. Applications from Black, Indigenous, or other under-represented communities, and/or female (or female-identifying) individuals are particularly welcome. In addition to a collegial lab environment, we work collaboratively with non-profit/Charitable organizations, government, and industry, and with colleagues from around the world. Students can expect ample support not only with their project work, but with career and professional development.

Lethbridge is a smaller, affordable city with an active university community. We are about 2 hours south of Calgary and have fantastic hiking, skiing, and other recreational opportunities within a 2-hour drive in Waterton Lakes National Park (Glacier NP in Montana), Crowsnest Pass, and the Castle Provincial and Wildlands Parks. Banff National Park (3 hours away) and the world-renowned recreational town of Fernie, British Columbia (2.5 hours away) are also in reach.

The University of Lethbridge and Lee-Yaw Lab are located on traditional Blackfoot Confederacy territory. We honour the Blackfoot people and their traditional ways of knowing and caring for this special region of the world.

Lee-Yaw Lab: <https://julleeyaw.weebly.com/> U of L Biological Sciences: <https://www.uleth.ca/artsci/-biological-sciences> U of L Graduate Studies: <https://www.uleth.ca/future-student/graduate-studies/> ~~~

Julie A. Lee-Yaw

Assistant Professor

Department of Biological Sciences

University of Lethbridge

4401 University Drive

Lethbridge, Alberta, Canada

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Phone: 403-329-2654

Website: <https://julleeyaw.weebly.com/> Twitter: @NorthernNiches

Julie Lee-Yaw <julie.a.leeyaw@gmail.com>

UNebraska Lincoln AvianPopGenomics

M.S. Assistantship: Introgression and population genomics of gray-headed and boreal chickadees in Alaska and western Canada.

We are seeking a candidate for a Master of Science assistantship in Applied Ecology at the Nebraska Cooperative Fish and Wildlife Research Unit and the University of Nebraska-Lincoln. The student will develop genomic (ddRAD and hyRAD) datasets to help conduct a fine-scale analysis of genomic variability, degree of introgression (species integrity) between the declining gray-headed chickadee and closely related boreal chickadee. The successful candidate will work with samples from diverse sources. This is a collaborative project with the US Fish and Wildlife Service and Alaska Department of Fish and Game. The aim of this project is to inform conservation actions on the gray-headed chickadee, a species designated in several national, regional, and local assessments as a bird of conservation concern. As such, a candidate with interests in conservation genetics/genomics or avian ecology is desired.

Start Date: August 2022 (flexible) Salary and Benefits: \$24,000 per year (2 years) will be paid through a research assistantship. Tuition and health insurance will be covered by the project.

Qualifications: Bachelor's degree in biology, evolution, genetics, or other relevant discipline. Experience with molecular biology techniques and coding in R or python is desirable, but not necessary. A willingness to learn, attention to detail, and a strong work ethic are essential.

Contact: Please contact Sarah Sonsthagen (ssonsthagen2@unl.edu) for more information about the project. To apply, please send the following to the email address above: 1) One-page cover letter describing your interest in the position, skills, and goals, 2) CV, 3) unofficial transcripts, and 4) contact information for 3 references. UNL and NECFWRU values equity, diversity, and in-

clusion.

Review of applications will begin immediately and continue until the position is filled. Preference will be given to applications received by March 31, 2022.

Sarah Sonsthagen <ssonsthagen2@und.edu>

UNorthDakota PopulationGenomicsPaleoecology

U. North Dakota. PopulationGenomicsPaleoecology.

The Laboratory of Evolutionary and Forensic Genetics at the University of North Dakota (www.und.edu) is inviting applications from highly motivated students who pursue a PhD degree. MS candidates will be also considered.

Students will be engaged in a project on the historic, current, and future status of bison herds from biological, ecological, and cultural perspectives. This cross-disciplinary project represents an opportunity to get intensive training in the methods of ancient and modern DNA analyses including high-throughput genome sequencing, stable isotope studies, computational analysis, and statistical modelling. Although the population project is focused on bison genomics and paleoecology, we have opportunities to develop new projects on computational analysis of big oral and environmental microbiome data as well as on genomics and microbiome study of human migrations and evolution.

Candidates should demonstrate motivation for hard laboratory work and strong interest in genomics and computational biology. Preference will be given to candidates with a proven record of computational analysis and bioinformatics skills. Additional experience in sequencing technologies is a plus.

If you are interested, you need to apply to the University of North Dakota Biology Graduate Program using the regular procedure. Requirements and How to Apply procedure can be found in the UND Biology Graduate School websites:

<https://und.edu/programs/biology-phd/-requirements.html> <https://und.edu/admissions/-graduate/apply.html> The additional information can be also found in the Biology Department website:

<https://arts-sciences.und.edu/academics/biology/> The position starts in August 2022. To receive full consideration, the Biology Graduate Program needs to receive

your application and required materials by February 15, 2022 for priority consideration. Later applications will be also considered.

Potential graduate students are also encouraged to contact Dr. Igor Ovchinnikov.

Contact information:

Dr. Igor Ovchinnikov Associate Professor Lab. of Evolutionary and Forensic Genetics Department of Biology University of North Dakota

Email: igor.ovtchinnikov@und.edu

“Ovtchinnikov, Igor” <igor.ovtchinnikov@und.edu>

Uppsala InsectPhylogenetics

Dear All

Through project LIFEPLAN (<https://www2.helsinki.fi/en/projects/lifeplan>), we are looking for a PhD student to work on Phylogenetic community ecology.

LIFEPLAN generates standardized community-level data across all continents over multiple years. Focusing on insects, the PhD student will use data generated by imaging, DNA barcoding and metabarcoding to explore the structure of species assemblages. By generating a phylogenetic framework for these communities, and by extracting information on body size, the PhD student will investigate community structure in terms of species diversity, phylogenetic diversity and trait disparity. The use and development of bioinformatics tools able to handle large datasets, in particular for generating phylogenetic information, will be an important part of the project.

The successful candidate will be integrated in the LIFEPLAN group, an international network of some hundred researchers from the fields of community ecology, mathematical modeling, artificial intelligence and metabarcoding. At the Department of Ecology of the Swedish University of Agricultural Sciences (SLU, Uppsala), the PhD student will join a research group with strong expertise in community ecology, ecological interaction networks, biogeography and insect phylogenetics.

For more information, see: <https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/?rmpage=-job&rmjob=6054&rmlang=UK> The deadline for application is March 4.

Best wishes Tomas Roslin

Tomas Roslin, Professor

Swedish University of Agricultural Sciences (SLU) Department of Ecology Ulls väg 18B 75651 Uppsala SWEDEN

Cellphone: +358 40595 8098 Phone (SWE): +46 18672383

web pages: <https://www.slu.se/en/cv/tomas-roslin/> <http://www.helsinki.fi/foodwebs/> <https://www.helsinki.fi/en/projects/lifeplan> Ni du skickar e-post till SLU innebär detta att SLU behandlar dina personuppgifter. För att lissa mer om hur detta gäller till, klicka

här E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, click here

Tomas Roslin <tomas.roslin@slu.se> Tomas Roslin <tomas.roslin@slu.se>

UppsalaU EvolutionaryAppliedMathematics

Four PhD positions, some of which related to evolutionary biology, are offered by Uppsala University Center for Interdisciplinary Mathematics.

<https://www.math.uu.se/research/cim/> Best regards Martin

Martin Lascoux Department of Ecology and Genetics EBC, Uppsala University Norbyvägen 18D 75236 Uppsala Sweden Tel +46 (0) 18 471 64 16 Fax +46 (0) 18 471 64 57 <https://lascouxlab.wordpress.com> Ni du har kontakt med oss på Uppsala universitet med e-post innebär det att vi behandlar dina personuppgifter. För att lissa mer om hur vi gäller det kan du lissa 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> Martin Lascoux <martin.lascoux@ebc.uu.se> Martin Lascoux <martin.lascoux@ebc.uu.se>

URoehampton London EcolEvolutionBehaviour

Master's programmes at the University of Roehampton, London

We have two exciting master's programmes open for applications at the University of Roehampton, London.

- * MRes in Primate Biology, Behaviour and Conservation
- * MbyRes in Ecology, Evolution and Behaviour

Both courses offer students the opportunity to develop, design and conduct a substantial independent research project with the support of a dedicated supervisor who is the world-leading expert in their field. These include academic staff in the School of Life and Health Sciences < <https://www.roehampton.ac.uk/life-and-health-sciences/> >. Further details about each course can be found here: MRes Primate < <https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.roehampton.ac.uk%2Fpostgraduate-courses%2Fprimate-biology-behaviour-and-conservation%2F&data=02%7C01%7CCharry.marshall%40ROEHAMPTON.AC.UK%7Ceb797af7ZeOQ44rPudKgMa%2F10M5b1698n0CA9YuC3U3xRZ4tVtQ%3D&res> 0 >, MbyRes in EEB < <https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.roehampton.ac.uk%2Fpostgraduate-courses%2Fecology-evolution-and-behaviour%2F&data=02%7C01%7CCharry.marshall%40ROEHAMPTON.AC.UK%7Ceb797af7S%2FvjSoJS5G%2Furyf%2B8VDH%2BLVD5sBSADSVAmXS%2FWIS0> >. Examples of evolutionary research project opportunities (and the supervisor) include:

- * The differential evolution of hands and feet in humans and other primates with specialised forms of locomotion (Lia Betti)
- * The behavioural physiology of air-breathing divers (Lewis Halsey)
- * Social integration: causes, consequences and ontogeny (Julia Lehmann)
- * What is the role of natural selection in shaping patterns of morphological diversification in recently adapted fish? (Isabel Magalhaes)
- * The evolution of the menopause: testing predictions in short-finned pilot whales (Harry Marshall)
- * Exploring the effects of environmental warming on

predator- prey interactions (Dan Perkins)

* Social organisation and collective nest building in ants (Andrea Perna)

* Contagion of affiliative social behaviour in primates (Stuart Semple)

A fuller list of potential project topics can be found here < <https://www.roehampton.ac.uk/postgraduate-courses/ecology-evolution-and-behaviour/potential-supervisors/> >. This is not an exhaustive list and we particularly welcome students with their own project ideas. Please get in touch with Harry Marshall (harry.marshall@roehampton.ac.uk) for more details. Please disseminate this to anyone relevant.

Harry Marshall Senior Lecturer in Zoology Centre for Integrated Research in Life and Health Sciences School of Life and Health Sciences University of Roehampton | London | SW15 4JD +44 (0)208 392 7386 harry.marshall@roehampton.ac.uk | Twitter < <https://twitter.com/HarryHMarshall> > | Website < <https://harryhmarshall.com/> >

MbyRes in Ecology, Evolution and Behaviour < <https://www.roehampton.ac.uk/postgraduate-courses/ecology-evolution-and-behaviour/> > | Twitter < https://twitter.com/UoR_MbyResEEB > | Instagram < https://www.instagram.com/uor_mbyreseeb/ > MRes in Primate Biology, Behaviour and Conservation

— / —

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>

UTasmania EvolutionMultipleSclerosisRisk

PhD position to study the evolution of multiple sclerosis risk at the University of Tasmania (UTAS), in Hobart, Australia

We are seeking a PhD candidate to study the impact of natural selection on the genetic risk of developing multiple sclerosis.

Multiple sclerosis (MS) prevalence shows a heterogeneous geographical pattern, with higher prevalence in populations of European ancestry, increasing with distance from the equator within those populations. This

pattern has likely been shaped in part by natural selection. Identifying genes that have undergone selection at MS risk loci will improve our understanding of the causative mechanisms behind the disease. This project will use population genomics to identify functional variation under natural selection at loci associated with MS risk.

You will use cutting-edge bioinformatic methods to carry out genome-wide scans for natural selection in population genomic data, and localise MS-related selection by targeting loci known to be associated with MS risk. You will also use a landscape genomics approach to examine the evolutionary causes of the strong latitude gradient in MS prevalence that is observed in some populations. You will use haplotype analysis to test whether specific haplotypes at loci under selection are associated with MS, providing a more detailed picture of the genetic architecture that contributes to risk than we can generate considering only individual variants. This project is primarily computational, but may also include a laboratory component to validate findings by targeted sequencing in a cohort of MS patients and controls.

The selected candidate will need to apply to the upcoming scholarship round at UTAS. Details can be found at the UTAS website below:

<https://www.utas.edu.au/research/degrees/available-projects/accordion-projects/health-and-medicine/-area/menzies-institute-of-medical-research/the-evolution-of-multiple-sclerosis-risk> Selection criteria:

1. Strong academic record, including a Bachelor degree with Honours or Masters from a recognised institution.
2. Strong quantitative skills, ideally including competence with R.
3. English language fluency.
4. Experience in either bioinformatics or population biology.

For further information please contact the primary supervisor, Bennet McComish (bennet.mccomish@utas.edu.au).

Bennet McComish <bennet.mccomish@utas.edu.au>

UVictoria BritishColumbia EvolutionInsectSymbiosis

The Perlman lab, in the Department of Biology at the University of Victoria, in British Columbia (BC), Canada, studies the evolution, ecology, and genetics of cryptic infections of insects, from beneficial symbi-

otic microbes, to pathogens, to selfish genetic elements. These hidden infections are widespread and incredibly diverse, and are major players in the biology of their hosts. We are looking to fill 2 funded PhD positions, starting in fall 2022, to study either a) defensive microbial symbionts of insects, b) obligate bacterial symbionts of parasitic nematodes, or c) selfish X chromosomes in *Drosophila*. For more information about our lab and about these projects, please visit our lab web page: <http://perlmanlab.weebly.com> We are looking for motivated students who are excited about research, with expertise in data analysis, bioinformatics, evolutionary genetics, and/or microbiology.

Victoria is a small, beautiful, liveable city on Vancouver Island, and the provincial capital of BC, close to Vancouver, BC and Seattle, Washington. The University of Victoria is a large public research university, and the Biology Department is a friendly, collegial place, with over 30 faculty members, including a big interactive group of evolutionary biologists, including Rana El-Sabaawi, Ryan Gawryluk, Ben Koop, Greg Owens, Dave Punzalan, Tom Reimchen, and John Taylor.

To apply, please send a 1 page statement of research interests and experience, CV and transcripts, along with the names and contact information of 2 references, to Steve Perlman (stevep at uvic.ca), with 'PhD position in insect infections' in the subject heading, by MARCH 1, 2022. Please also include which of the 3 research topics you are most interested in.

Steve Perlman Professor Department of Biology University of Victoria

stevep@uvic.ca

Vienna Population Genetics

PhD positions in Population Genetics - apply by April 21

Over the past years, Vienna has developed into one of the leading centres of population genetics. The Vi-

enna 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:

- Did selfish DNA from Neanderthals infect our human genomes?
- Evolution from de novo mutations - influence of elevated mutation rates.
- Evolution of sex-specific neuronal signaling.
- Impact of para-mutations on the invasion dynamics of TEs.
- Inference of selection signatures from time-series data.
- Invasion dynamics of different TEs.
- Leveraging long-read sequencing for population genetics of TEs.
- Long-term dynamics of local *Drosophila* populations.
- Studying the evolution of gene expression with single cell RNA-Seq.
- 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 April 21, 2022 will be considered. Two letters of recommendation need to be sent directly by the referees.

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 Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

Skype: julia.hosp T +43 1 25077 4302 (currently unavailable)

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

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AbuDhabi 3mnth SteppeBirdPhylogenomics

Short term contract (3 months), Steppe Bird Phylogenomics

We are looking for a highly motivated candidate to join our Conservation Genetics team to develop pilot phylogenomic datasets for certain clades of African/Asian steppe birds of conservation concern. The position is ideally suited for an early career scientist contemplating further graduate study in conservation genomics/evolutionary biology, especially those interested in improving their knowledge of wet lab and bioinformatics methodologies that result in the generation of genome-wide phylogenomic markers using multiple reduced-representation approaches.

The ideal candidate has passion and curiosity for arid land birds, avian conservation, and/or the biogeography of steppe ecosystems. Prior experience with next-generation sequencing methodologies, systematic biology, and basic bioinformatics is a plus. The position is contemplated for someone with Master's level experience, but qualified applicants with undergraduate (Bsc.) de-

grees are encouraged to apply.

The goal of short term contract positions in the Conservation Genetics teams is to generate pilot data/proof of concept for emerging research in biodiversity genomics in the Middle East/North Africa (MENA) region with the goal of creating promising new research areas for our group; as such, some successful projects may have the possibility of becoming converted into funded graduate student projects, as funding allows.

This is a three-month position based in Abu Dhabi, UAE, starting around 10 March 2022. The incumbent will receive round trip transportation to Abu Dhabi, room and board at the National Avian Research Center (NARC), as well as a monthly stipend. The intern will join a growing, international team of conservation genomicists and ecologists. The future employee will work in a brand new, state of the art, conservation genomics laboratory located at the NARC under the close supervision of the laboratory head.

Reneco is a multi-national and highly multi-cultural institution, and we cherish diversity and promote tolerance. We encourage early career researchers, especially from under-represented groups to apply.

Further information on RENECO research activities can be found at: <https://www.researchgate.net/institution/-Reneco.International.Wildlife.Consultants> Interested

candidate can apply/inquire at join-us@reneco.org

Application materials should include a cover letter describing your interest in the position and qualifications, a CV, and the names and contact information for at least two references.

Dr Matthew J MILLER Conservation Genetics Researcher RENECO INTERNATIONAL WILDLIFE CONSULTANTS LLC 3902 Sky Tower Al Reem Island, Abu Dhabi, UAE P.O. Box 61741 Office:+971 (0) 2 64 33 500 Mobile:+971 (0) 50 125 9520 Email: mmiller@reneco.org

MILLER Matthew <mmiller@reneco.org>

AuburnU CuratorTerrestrialInvertebrate

Curator (Collection Manager) of Terrestrial Invertebrates

The Auburn University Museum of Natural History (AUMNH) is seeking a Curator (Collection Manager) for its Terrestrial Invertebrate Collection. The successful candidate will have curatorial experience in insects or other arthropods. Our collections are currently strong in Alabama insects. Duties of the collection manager will include sorting and identifying collections, maintaining existing collections, processing loans of materials, and maintaining the computer database. The candidate should be familiar with database programs, particularly Specify, and be committed to the open presentation of collections data on the internet. The candidate will be expected to contribute to AUMNH outreach and education efforts. For more information on the AUMNH, please visit: <http://www.aumnh.auburn.edu> Minimum Qualifications

The minimum qualifications are a Bachelor's degree from an accredited institution in Biological Sciences or a related discipline. The successful candidate will have knowledge of a wide variety of terrestrial arthropod collections. Knowledge of fundamental concepts, practices and procedures in the procurement and maintenance of collections for exhibition is also required.

Desired Qualifications

Desired qualifications include: A MS or PhD in biology or related field is desired.

Evaluation of applications will begin 14 March 2022, and will continue until a suitable applicant is found.

For more information and to apply, visit: <https://www.auemployment.com/postings/27712>. Submit a cover letter (including a statement describing curatorial experience), CV, and names and contact information of three references. If you have any questions, please contact Dr. Jonathan W. Armbruster, Director AUMNH, Department of Biological Sciences, 101 Life Sciences, Auburn University, AL 36849, Armbrjw@auburn.edu. 334-844-9261. Auburn University is an equal opportunity/affirmative action employer and actively seeks applications from qualified women and minority candidates.

Jonathan W. Armbruster Director and Curator of Fishes, Auburn University Museum of Natural History 101 Life Sciences Building Auburn, AL 36849 334-844-9261

Office: 131 Biodiversity Learning Center (M. White Smith)

Jonathan Armbruster <armbrjw@auburn.edu>

CAU Kiel Germany PlantPathogenEvolGenomics

Note: this job has been advertised before, but there are some administrative changes.

The Salary scale is 14, instead of 13 and the starting date should be August 1st 2022 or later.

The Institute for Phytopathology at the Christian-Albrechts-Universität zu Kiel, Department of

Phytopathology (Head Prof. Remco Stam) is seeking to fill the following position from August 2022 or later.

Research Associate (junior group leader)

initially for a limited period of three years. There is the possibility to extend the position to six years. The regular weekly working hours are those of a corresponding fulltime job (currently 38.7 hours). If the requirements of the collective agreement are met, the position will be classified in pay group 14 of the TV-L. The position entails a regular weekly teaching obligation of four teaching hours. A qualification to habilitation or equivalent will be supported.

The candidate will work on ongoing projects within the research group in the field of population genomics or evolutionary genomics of plant pathogens or crop wild relatives. In addition, the candidate is expected

to develop his/her own research project, thematically complementary to the ongoing work of the research group.

We offer: - Excellent working opportunities for a Population genomics and evolutionary genomics. Access to good computer servers via the CAU computer centre. - Experimental plant cultivation work in field trials (Experimental farms). - Controlled trials, access to greenhouses and growth rooms. - Well-equipped laboratories with equipment for phenotyping and measuring defence mechanisms in plants. - Opportunity to get involved in ongoing externally funded projects, to develop independent research projects and to expand them by attracting external funding - Excellent opportunities for networking and collaborations through the Kiel Plant Centre and the Kiel Evolution Centre

Job description: - Research work and publications in the field of evolutionary genomics or population genomics of phytopathogens, host plants or crop wild relatives. - Participation in teaching (genomics courses) to the extent of 4 semester hours per week - Acquisition of third-party funds - Organisational tasks within the department - Within the scope of the position, the opportunity to carry out own scientific work is given. The development of an own research group should be aspired. - In addition, administrative work is to be carried out to a lesser extent, such as the maintenance of the intranet and the servers at the chair.

Requirements profile: - Doctorate in bioinformatics, biology or an agricultural science subject. - Knowledge of evolutionary genomics or population genomics and experimental design - Interest in the interaction between plants and pathogens - Flexibility, independent working style and ability to work in a team - Knowledge of a programming language - Experience in evolutionary modelling is desirable. - Laboratory experience with DNA and RNA techniques such as PCR, RT-qPCR is desirable. - Proven experience with the acquisition of third party funding (fellowships, grants) is desirable

Christian-Albrechts-Universität zu Kiel sees itself as a modern and cosmopolitan employer. We welcome your application regardless of your age, gender, cultural and social origin, religion, ideology, disability or sexual identity. We promote gender equality. Women are given priority in the case of equivalent aptitude, ability and professional performance.

The University of Kiel has an equal opportunities policy for persons with recognized disabilities. Disabled persons with the necessary qualifications will therefore be given priority. Applications by people with a migration background are particularly welcomed. We do not endorse submitting photographs/application photos and

therefore ask you to refrain from doing so.

Applications with the usual documents (letter of motivation, curriculum vitae and contact details of references) should be sent in one document by 28 February 2022 by e-mail to: remco.stam@tum.de

If you have any questions about the position, please contact Remco Stam directly. Informal inquiries are encouraged.

Please note that all documents will be destroyed after completion of the recruitment process.

Institute for Phytopathology Christian-Albrechts-Universität zu Kiel Hermann-Rodewald-Str. 9, 24118 Kiel

Remco Stam <remco.stam@tum.de>

Colorado State U Insect Systematist

Insect Systematist- Assistant or Associate Professor - Colorado State University The Arthropod Systematist and Director of the C.P. Gillette Museum of Arthropod Diversity will develop an externally funded, nationally and internationally recognized research program on the biology, systematics, biodiversity and/or conservation of arthropods including taxa important to Colorado's natural and managed ecosystems. This is a 9-month tenure-track position. We are particularly interested in scientists that can address questions of the biodiversity impacts of global climate and land-use change. The successful candidate will also contribute to the department's teaching mission through teaching Advanced Insect Evolution and Classification and contribute to other courses that fulfill department needs. As Director of the C.P. Gillette Museum of Arthropod Diversity, the person will direct curation of the collection, obtain funds to support museum activities, and facilitate the use of the collection by other researchers and the public.

Thanks,

Sarah Ehrlich

Assistant to the Department Head Agricultural Biology 970-491-1930 C129B Plant Science Building, 307 University Avenue Colorado State University, Fort Collins CO 80523 <http://agbio.agsci.colostate.edu/> she/her

"Ehrlich, Sarah" <Sarah.Ehrlich@colostate.edu>

EasternKentuckyU PlantEvolution

Job Title: Assistant Professor – Botany - Eastern Kentucky University

Job Description: The Department of Biological Sciences (<https://biology.eku.edu/>) at Eastern Kentucky University is accepting applications for a Botanist at the rank of Assistant Professor. This is a 9-month, tenure-track position to begin August 15, 2022. Teaching responsibilities will include courses in the undergraduate Biology (BS), Wildlife Management (BS), and graduate (MS) programs. Primary courses to be taught include General Botany, Dendrology, Plant Systematics, and Aquatic & Wetland Plants. Additional courses may be assigned based on the candidate's expertise and departmental needs.

The typical teaching load is 12 hours per semester, but new faculty can expect to teach 9 hours per semester during their first year. Current departmental policies allow for continued reassigned time for research linked with extramural funding and student-centered research activities. The successful candidate will be expected to direct and advance the mission of the Ronald L. Jones Herbarium, the largest in the Commonwealth of Kentucky, which is housed in the recently completed (August 2017) Science Building. Knowledge of the flora of the eastern United States is essential for both teaching and direction of the herbarium. In addition, the incumbent will establish an active research program, mentor undergraduate and graduate (MS) students, and engage with conservation-oriented organizations such as the Kentucky Native Plant Society, the Office of Kentucky Nature Preserves, and US Fish and Wildlife Service. Areas of research may include, but are not limited to, computational biology, population biology, plant phylogenetics/systematics, and organismal diversity. A Ph.D. in Biology or a related field from a regionally accredited or internationally recognized institution by the time of appointment is required; post-doctoral and teaching experience are preferred. Review of applications will begin March 21st and continue until position is filled. For inquiries regarding facilities, equipment, and natural areas, contact Dr. Jennifer Koslow (mailto:jennifer.koslow@eku.edu), Chair of the Search Committee. All interested applicants must apply via <https://jobs.eku.edu/postings/19329>. Applicants should submit a brief letter of interest, a current CV, a

statement of research accomplishments and goals that includes a description of how their research program will engage undergraduate and graduate students, a statement of teaching interests that includes a description of experiences and planned approaches to teaching field botany, and contact information for three references. The application materials should also address the candidate's experience and training in working in herbaria and the priorities of the candidate in directing the EKU Herbarium. Offers of employment are contingent upon completion of a satisfactory background check and verification of educational credentials. EKU is an EEO/AA institution that values diversity in its faculty, staff, and student body. In keeping with this commitment, the University welcomes applications from diverse candidates and candidates who value diversity.

Direct Link: <http://jobs.eku.edu/hr/postings/19329>
David M. Hayes, Ph.D. Associate Professor Department of Biological Sciences Science Building 3238 Eastern Kentucky University 521 Lancaster Ave. Richmond, Ky 40475

Office Phone - (859)622-1016 Office - Science Building 1237

"Hayes, David" <David.Hayes@eku.edu>

FWS Portland Oregon FishGeneticist

How to Apply: <https://www.usajobs.gov/GetJob/ViewDetails/634934300> Geneticist (Fisheries)

This position is a Geneticist (Fisheries), GS- 0440-12 working in Portland, Oregon for the Abernathy Fish Technology Center. This position is also open to status candidates under announcement R1-22-11371339-JH-MP. You must apply to each announcement separately if you wish to be considered under both recruitment methods./em

www.usajobs.gov Title: Geneticist (Fisheries), GS-0440-12

Location: Longview, WA

Telework (work from home) eligible as determined by supervisory approval.

Salary: \$84,923-110,404

Permanent position

Relocation is not authorized.

Full-time

Security clearance not required

Major Duties:

Acts as the Point of Contact and technical lead on numerous applied genetic research projects involving native fish species. Performs statistical analyses and generates graphical representations of study results, and incorporates these data into written reports, peer-reviewed scientific publications and oral presentations. Participates in multi-agency work groups and provides interpretation and guidance on the application of genetic data to Service policy to both internal and external partners. Uses DNA markers and automated DNA analyzers/sequencers to collect genotypic, gene frequency, and DNA sequence data on populations of fishes. Directs daily laboratory activities performed by 1-2 lower-graded fish biologists/geneticists, biological technicians, visiting investigators, students, and/or volunteers. Qualifications:

Basic Requirement:

A bachelor's degree with a major in genetics; or one of the basic biological sciences such as agronomy, horticulture, animal, dairy, or poultry husbandry, entomology, microbiology, plant pathology, chemistry, molecular and cellular biology, and physiology that included at least 9 semester hours in genetics.

AND

Minimum Qualification GS-12

One year of specialized experience comparable in scope and responsibility equivalent to grade GS-11 in the Federal service. Examples of qualifying specialized experience may include: 1) Conduct complex molecular genetic analyses for a variety of projects working with different fish species and genetic analysis methods (e.g. to determine genetic similarities and relationships, assign individuals to population of origin, quantify levels of genetic variation within and among populations, and identify species and sex); 2) Perform statistical analyses and generate graphical representations of study results, and incorporate the data into written reports, scientific publications, and oral presentations; 3) Oversee and schedule laboratory activities performed by 1-2 biological technicians, students, and/or volunteers; and 4) Use DNA markers and automated DNA analyzers/sequencers to collect genotypic, gene frequency, and DNA sequence data on populations of fish.

Thank you,

Jenn Harris

Human Resources Assessment Specialist

Joint Administrative Operations| U.S. Fish and Wildlife Service

jennifer_harris@fws.gov, 720-231-7199 (MST)

Mission: To deliver innovative administrative services that advance the mission of the U.S. Fish and Wildlife Service.

“Harris, Jennifer L” <jennifer_harris@fws.gov>

Gotland Sweden Field Assist Hole Nesting Birds

Swedish flycatchers and blue tits from the beautiful and mysterious island of Gotland are again calling for new fieldwork enthusiasts! We are looking for at least 3 motivated field assistants, to join our team for the 2022 spring season on Gotland. You will become a member of our large team (up to 10-12 people in total), working on Gotland from the approx. half of April (start around April 20th) until the end of June. Exact times spent in the field may vary and we are flexible about arrival and departure dates - but assistants able to cover larger periods of the field season will be preferred.

Currently on Gotland we run three projects, all coordinated by the Jagiellonian University in Krakow (Poland), with close collaboration of the Uppsala University (Sweden), all using the local blue tit and collared flycatcher populations. Our research is part of a continued monitoring effort that has been going on Gotland since the 1980's. The current projects are concerned with: (i) the impacts of ambient temperature on life-history parameters of parents and offspring; (ii) the influence of artificial light at night on circadian rhythms and physiology of birds—and (iii) the quantitative genetic patterns in variation of bird microbiomes. In all cases assistants will have to be ready for long working hours in varying weather conditions - although specific work times vary greatly depending on the stage of breeding season, with periods of busy work mixed with periods of relatively little activity.

Fieldwork on Gotland typically involves: visiting study plots on daily basis to monitor the progress of all breeding attempts, helping in two main experiments that currently take place in the population (the heating and the lighting experiments - each requiring different tasks), measuring the birds on specific occasions, blood sampling selected individuals, and some logistic tasks such as fixing nest boxes or cleaning fledged nests.

You will be housed with the rest of the team in one of the houses we rent for the whole breeding season - the house is quite comfortable and has all necessary amenities. We will also cover most or all travel costs (depending on your departure location) and living costs (accommodation and food).

What do we require? - good organisation and attention to details - we pay great attention to precision in data collection, its quality and correctness; - good interpersonal skills - you have to be able to work in a team, share work if needed and communicate effectively (English is our working language during work); - experience with handling wild birds, ringing, mist-netting, morphological measurements and/or blood sampling is not required (we can teach you this on site) but highly recommended and candidates having such skills are always very welcome; - ideally - having an EU (or EU-compatible) driving license.

If you are interested and would like to apply to join the team this year please send your CV and contacts to 2 potential reference providers to—szymek.drobniak@uj.edu.pl—by March 15th. In your application please also state: what is the preferred period you would like to come (or whether you have no preference, meaning you could join us for most/all of the season) and where are you based (in terms of from where you would travel to Gotland if accepted; due to national and institutional COVID-19 restrictions travel from certain locations may be more difficult to accommodate than from others). In case of any questions - please do not hesitate to contact us. After the closing date we may choose to contact only selected applicants.

Dr hab. Szymon Drobniak

Institute of Environmental Sciences Jagiellonian University, Kraków, Poland

School of Biological, Environmental and Earth Sciences University of New South Wales, Sydney, Australia

Google Scholar profile [szymekdrobniak.wordpress.com](https://www.google.com/scholar/profile/info?id=szymekdrobniak)
[szdrobniak.pl](https://www.google.com/scholar/profile/info?id=szymekdrobniak)

Szymon Drobniak <szymek.drobniak@uj.edu.pl>

IndianaU ResAssist EvoGenomics

A full-time Research Associate (RA) position is available in the laboratory of Dr. Ryan Bracewell in the EEB program at Indiana University Bloomington to help study functional genomics and chromosome evolution in beetles. The RA will be involved in insect colony maintenance, next-generation and long-read sequencing library preparation (RNA-seq, Hi-C, Nanopore), experimental execution, and data collection/management. The RA will also be responsible for ordering lab supplies, maintaining lab equipment, and helping to mentor undergraduate students. Information about the Bracewell lab is available at <https://ryanbracewell.com>. B.S. in Biology or a related field with previous research experience in genetics, genomics, molecular biology, and/or evolution is required. M.S. or Ph.D. applicants will also be considered. Good communication skills and the ability to work independently as well as part of a team are expected. Salary will be commensurate with education and experience, benefits included. Best consideration date is March 1st, 2022. Expected start date is late spring/negotiable. Please submit a cover letter describing interest and previous experience, a curriculum vitae, and the names of at least three references (including email addresses and phone numbers) to <https://indiana.peopleadmin.com/postings/12379>. For questions about the position, please contact Dr. Ryan Bracewell (rbracewe@iu.edu).

The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

“Bracewell, Ryan Russell” <rbracewe@iu.edu>

IowaStateU EvolutionInsectMicrobe

Biologists working on evolutionary aspects of insect-microbe, plant-microbe, or insect-plant-microbe interactions are invited to apply for the position below.

Position Announcement Assistant Professor in Insect-Microbe-Plant Interactions Applicants are invited for a tenure-track faculty position at the rank of Assistant Professor in the broad area of interactions between and among insects, microbes and/or plants. Candidates that work across all three organismal groups are particularly encouraged to apply. We seek candidates whose research will lead to a better understanding of the nature of these interactions and how they impact natural, urban or agricultural ecosystems. Areas of interest include, but are not limited to, the genetic, genomic or metabolomic bases of interactions; the influence of biotic or abiotic factors on interaction outcomes; plant-microbe interactions mediated by insects; plant-insect interactions influenced by microbes; and the impacts of such interactions on ecosystem sustainability and health. The successful candidate is expected to develop an externally funded, high-impact research program and actively engage in the training and supervision of graduate students. They will be expected to develop a teaching program that engages undergraduates in the biological sciences and participate in service to the university. The position is 9-month, 60% research, 30% teaching and 10% service. The appointment will be in the Departments of Plant Pathology & Microbiology and Entomology, which are currently merging and are administered by a single Chair in the College of Agriculture and Life Sciences at Iowa State University.

All faculty members have a common responsibility to support and sustain our core values and are expected to interact collegially within the department, college, and university, and maintain the highest standards of integrity and ethical behavior. Successful candidates must be committed to working with diverse students, staff and community members. ISU especially seeks candidates who are committed to contributing to the diversity of the academic community through their research, teaching and service, and support the University's Principles of Community. We encourage applications from individuals who identify as members of traditionally underrepresented groups, including but not limited to African American or Black, Asian American, First Nations, Indigenous, Native American, and Latinx populations. We

are committed to the retention of new faculty, and as such, the successful candidate will be provided with a faculty mentor.

With 25,000 undergraduates, almost 5,000 graduate students, and 6,200 faculty and staff, ISU is a strong land-grant and Research I university. ISU has extensive shared facilities for biological research, including 'omics technologies for genetics, genomics and microbiome studies and high- performance computing. The collaborative environment is enhanced by interdisciplinary and disciplinary graduate majors that promote cross-fertilization within labs. The successful candidate will have an office and laboratory in one of the newest buildings on campus, which was designed for collaborative research and teaching and has in-house chambers and greenhouses for insect and plant growth. Highlighted aspects of the departments are the ISU Plant and Insect Diagnostic Lab, an active Insect Zoo for youth outreach, numerous field research facilities, co-administration of a vibrant and experiential Microbiology program for undergraduates, faculty strengths in extension, teaching, and the scholarship of teaching and learning, and research across the full spectrum from fundamental to applied.

Ames is a community of about 67,000 that is close to the Des Moines metropolitan area. Ames is home to several federal labs, including the National Laboratory for Agriculture and the Environment and numerous USDA Agriculture Research Service labs. Ames is ranked as a top town to live in and has received awards recognizing the high quality of its public schools, amenities, and commitment to the environment and quality of life.

Required Qualifications Candidates must have a Ph.D. in Entomology, Microbiology, Plant Pathology or a related field

Preferred Qualifications - Evidence of strong potential for conducting and publishing innovative research in insect, microbe and/or plant interactions using modern approaches - Demonstrated success in conducting research - Demonstrated commitment to evidence-based, innovative teaching - Demonstrated success in securing extramural funding - Demonstrated commitment to principles of diversity, equity, or inclusivity

Application Instructions:

All application materials must be submitted via the university's job portal at

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JohnInnesCentre UK ResAssist InsectGenomics

Research Assistant (Entomology and Insectary Platform) Salary: £32,578 - £35,445 per annum depending on qualifications and experience. Contract: 12 months, full-time (part-time hours will be considered) Location: John Innes Centre, Norwich, UK. Closing date: 5th March 2022 Reference: 1004204

An exciting opportunity has arisen for a Research Assistant to join the Entomology and Insectary Platform team at the John Innes Centre to support research on Invertebrate Genomics.

About the John Innes Centre:

The John Innes Centre is an independent, international centre of excellence in plant and microbial genetics. We nurture a creative, curiosity-led approach to answering fundamental questions in bioscience, and translate that knowledge into societal benefits.

Our employees enjoy access to state-of-the-art technology and a diverse range of specialist training opportunities, including support for leadership and management. Click here to find out more about working at the John Innes Centre.

About the Entomology and Insectary Platform:

The John Innes Centre's Entomology and Insectary Platform is a unique and specialised service for supporting invertebrate-related studies. The main areas of research are on pests associated with direct crop losses or transmission of plant pathogens (bacteria and viruses) and the production of natural products of interest. The entomology team are highly experienced in the husbandry of many different species of invertebrates, as well as in the design, undertaking and overseeing of a wide range of experiments. The Entomology and Insectary Platform has recently started to work with several John Innes Centre research groups to tackle emerging challenges in invertebrate pest research by generating invertebrate genomic resources and analysing large genomic datasets using evolutionary approaches.

The role:

This role involves working with the Platform's Entomology Team to design, undertake, and support invertebrate omics projects. In particular, the candidate will

work closely with the Informatics and RevGen Platforms and the Hogenhout and Wells' research groups on a project aimed at trialling two approaches to sequence the genome of two insect pests of interest, *Psylliodes chrysocephala* and *Macrosteles quadrilineatus*, with the ultimate goal of establishing at JIC the capability to carry out de novo genome sequencing of small invertebrates. In addition, the post holder will assist with the day-to-day maintenance of insect colonies for research purposes, and the basic duties associated with maintaining an entomology facility to the high standards of hygiene and strict operational procedures required for operating under a Defra licence.

The ideal candidate:

You will have a MSc or a PhD in Biological Science or a similar subject. You will have a keen interest in entomology, demonstrable experience working in a research environment, and proven knowledge of omics approaches. Knowledge and experience on insect husbandry (e.g. setting up crosses and breeding), molecular biology laboratory techniques (e.g. DNA and RNA extraction), and bioinformatics (e.g. handling of sequence data, genome assembly and annotation) is highly desirable. Although not essential, knowledge of ecology, genetics and evolution of invertebrates and plant-insect and plant-insect-pathogen interactions will be evaluated positively. You will have a strong interest in pursuing a research career in entomology supporting research projects.

Additional information:

We welcome applications from candidates seeking part-time or other flexible working arrangements.

Interviews will be held on 14th and 15th March 2022.

For further information and details of how to apply, please visit our website <http://jobs.jic.ac.uk> or contact the Human Resources team on 01603 450462 or nbi.recruitment@nbi.ac.uk quoting reference 1004204.

We are an equal opportunities employer, actively supporting inclusivity and diversity. As a Disability Confident organisation, we guarantee to offer an interview to all disabled applicants who meet the essential criteria for this vacancy. We are proud to hold a prestigious Gold Athena SWAN award in recognition of our inclusive culture, commitment and good practices towards advancing of gender equality. We offer an exciting, stimulating, diverse research environment and actively promote a family friendly workplace. The Institute is also a member of Stonewall's Diversity Champions programme.

The John Innes Centre is a registered charity (No. 223852) grant-aided by the Biotechnology and Biological

Sciences Research Council.

Kind regards,

Georgina Roberts HR Advisor (Recruitment) Human Resources

NBI Partnership, Norwich Research Park, Colney, Norwich, NR4 7UH

I am sometimes working remotely but can be contacted as normal by: Email: georgina.roberts@nbi.ac.uk $\frac{1}{2}$
Tel: 01603 450462 or Ext 2462

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

KarlstadU EcologyEvolution

Associate Senior Lecturer in Biology Faculty of Health, Science and Technology

<https://kau.varbi.com/en/what:job/jobID:477128/>

Karlstad University takes pride in combining active external cooperation with academic excellence. Karlstad University has around 19 000 students and a staff of over 1 300 members. Democratic principles, equality and diversity are cornerstones of the University. We value the enriching presence of diverse backgrounds and competencies among students and staff. Read more about working at Karlstad University at <https://www.kau.se/en/work-with-us> Would you like to be part of exciting ecological and evolutionary research on linkages between aquatic and terrestrial habitats?

Description

The Faculty of Health, Science and Technology is advertising a position as Associate Senior Lecturer in Biology at the Department of Environmental and Life Sciences. The Department of Environmental and Life Sciences conducts basic as well as applied research and we are now looking for an enthusiastic colleague to complement our research profile in biology.

The River Ecology and Management Research Group specialises in sustainable use of natural resources and strives to find solutions to environmental problems that benefit both society and the environment. Many research projects are carried out in collaboration with industry, government agencies, special interest groups, and

landowners. The research group (<http://www.nrrv.se>) conducts research on the effects of hydropower on connectivity, interactions between aquatic and terrestrial environments, food webs, winter ecology in relation to global climate change, landscape ecology, invasive species, ecological modelling, endangered fish and invertebrate species, and conservation biology. We also conduct research in domains such as basic evolutionary and molecular biology. In addition to a large aquarium facility, the research environment provides opportunities for genetic analysis (PCR), preparation of samples for analysis of stable isotopes, plant cultivation, rearing insects, and basic laboratory and field equipment.

Duties

The position as associate senior lecturer aims to attract ambitious and qualified researchers who are at the beginning of their career and looking to gain valuable qualifications in the field. Research time for this position is at least 75%. Main duties include leading and developing ecological and evolutionary research on links between aquatic and terrestrial habitats that complement the research group's existing research profile, as well as applying for external research funding and teaching on-campus and distance courses at the first- and second-cycle level. Supervision at the first-, second- and third-cycle level may also be included.

You are also expected to collaborate with the surrounding community to create mutual exchange and work to ensure that the knowledge and expertise available at the university is put to good use in society. In order to contribute to a positive working environment and help further the subject's activities, we expect you to be present and actively participate in the day-to-day operations and workplace community.

Qualification requirements

To be eligible for the position of associate senior lecturer, applicants are required to hold a PhD or equivalent scientific qualifications in biology. The position is primarily intended for applicants who have completed their PhD or acquired equivalent qualifications no longer than five years before the application deadline. If an applicant completed their PhD or equivalent qualifications more than five years ago, this requirement may be waived if there are special circumstances. The position requires proficiency in Swedish and English. A candidate who does not meet this requirement may still be hired provided they actively work to acquire these language skills.

A requirement for eligibility is also a completed course in higher education pedagogy. An applicant who has not completed a course in higher education pedagogy can still be eligible for the position provided that they use the

time allotted for professional development to complete the course within two years of employment. For other eligibility requirements, refer to Karlstad University's Appointments Procedure: Anställningsordning_ENG (kau.se)

Assessment criteria

In assessing the candidates, more weight will be given to research expertise than teaching expertise. In assessing research expertise, preference will be given to ecological and evolutionary research on links between aquatic and terrestrial habitats.

Special weight will be given to:

- documented scientific skills in ecological and evolutionary research on links between aquatic and terrestrial environments
- excellent skills in statistics as well as excellent analytical ability

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MarineBioLab Maine ResAssistant

Research Assistant Molecular Biology Lab - MBL

The Marine Biological Laboratory is seeking applicants for a full-time Research Assistant position with the Josephine Bay Paul Center. The successful applicant will contribute to molecular biology investigation of biological diversity.

Additional Information: Responsibilities include, but are not limited to, laboratory management, DNA extraction, polymerase chain reaction, use of informatics software packages, and participation as a course TA for college and high school level enrichment courses. Duties and salary will be commensurate with relevant experience.

Qualifications: Bachelor's degree with training in molecular biology. Must have one or more years of laboratory experience. Candidate will be expected to work independently after initial training period, but to be able to work well with others in a larger research group. Facility with protist and bacterial culture, Microsoft Office programs, Linux operating systems.

Apply on the

MBL website and provide: (1) a letter describing your interests, skills and prior research experience, including any specific experience with the job responsibilities listed above; (2) a curriculum vitae; (3) the name and contact information of three references.

<https://recruiting.ultipro.com/MAR1033MBL/-JobBoard/4c3007c3-6354-41de-a13f-d95be60d91e9/-OpportunityDetail?opportunityId=8b487213-0203-4d5a-9690-5f5e9e9fb189> Jennifer DeAlteris <jdealteris@mbl.edu>

MarineBioLab ScientificProgrammer

Scientific Programmer - Integrated 'omics

Marine Biological Laboratory

A programmer position is available in the Bay Paul Center to work with the new NSF-funded Science and Technology Center Chemical Currencies of a Microbial Planet, or C-CoMP (<https://ccomp-stc.org/>). The successful candidate will work with A. Murat Eren (Meren, <https://merenlab.org>) and collaborate with a dynamic and diverse group of scientists in C-CoMP. We are interested in developing advanced open-source software platforms that enable integrative investigations of complex environmental data from world's oceans. The successful candidate will support ongoing data integration efforts through software development, participate in scientific themes of the C-CoMP, and interact with the vibrant and collegial MBL and WHOI scientific community in Woods Hole.

Basic qualifications:

A Ph.D. in biological sciences, computational sciences, or anything in between.

Advanced knowledge of Python programming language.

Familiarity in JavaScript and basics of web development.

Demonstrated experience in open-source software development.

Demonstrated expertise in OOP and modern software design and development paradigms.

Familiarity with the anvi'o software platform (<https://anvio.org>)

Apply on the MBL website and provide the following

required documents: (1) a short cover letter describing your interests, skills, and prior research experience. (2) a curriculum vitae/resume. (3) the names and contact numbers of three persons who can be contacted as references.

Jennifer DeAlteris <jdealteris@mbl.edu>

MichiganStateU Tech PlantEvolutionaryGenetics

There is an opening for a research technician position available in the lab of Dr. Emily Josephs in the Department of Plant Biology at Michigan State University. The Josephs Lab studies evolutionary genetics of plants (see more at josephslab.github.io). The technician will be involved in multiple projects in plant evolutionary genetics. Specific projects will depend on the technician's skills and interests, but could include greenhouse and growth chamber experiments to measure plant phenotypes, plant collection trips in the US, DNA extractions or other wet-lab benchwork, and bioinformatics. The technician will also be expected to participate in lab meetings and collaborate with other lab members and be involved in presenting and writing up the results from their work. Ideally the candidate could start in summer 2022.

MSU is a fantastic place to work, with a favorable cost-of-living:salary ratio, and many other labs engaged in exciting population genetics, plant genomics, and evolutionary research. The Josephs lab is committed to increasing diversity in the scientific community. I therefore strongly encourage applications from candidates from historically excluded groups.

For additional details and to apply, please visit careers.msu.edu, respond to Job #762149. Applications will be reviewed starting 3/1/2022. Please email with any questions at josep993@msu.edu

Emily Josephs Assistant Professor Dept of Plant Biology
Michigan State University josephslab.github.io

“Josephs, Emily” <josep993@msu.edu>

Montpellier 3 TechSupport Biodiversity

University of Montpellier is recruiting 3 full-time positions for the Technical Support Unit of IPBES, a United Nations Environment Program platform.

- Lead program management Officer of the technical support unit for the IPBES : <https://euraxess.ec.europa.eu/jobs/740813> - Associate program management Officer of the technical support unit for the IPBES : <https://euraxess.ec.europa.eu/jobs/740809> - Program management assistant of the technical support unit for the IPBES : <https://euraxess.ec.europa.eu/jobs/740807>
Philippe Jarne

UMR Cefe - campus CNRS 1919 route de Mende 34 293 Montpellier France 06 32 99 51 46 <https://www.cefe.cnrs.fr/> Philippe JARNE <philippe.jarne@cefe.cnrs.fr>

NHM London ChairPostgraduateStudies

Chair of Postgraduate Studies, Natural History Museum, London

The Natural History Museum, London, is seeking applicants for a full-time, permanent Chair of Postgraduate Studies for the Graduate Centre. The Natural History Museum's Graduate Centre is the NHM's hub of student training, with close to 200 Master's and PhD students via partnerships with ~30 UK universities and research institutions.

The Chair of Postgraduate Studies is a critical role in the Natural History Museum Graduate Centre, as the person with the primary responsibility for developing, implementing, and maintaining a top-quality postgraduate training and support programme for NHM early-stage researchers (Master's and PhD students and contract post-doctoral workers).

Reporting to the Dean of Postgraduate Education, the Chair of Postgraduate Studies acts as the primary operations coordinator between the NHM and our university

partners in Master's and Doctoral training, including sitting on operations and management boards and steering groups for our joint programmes.

This role includes planning and leading student inductions, skills training, career development workshops, and other events for students, postdocs, and staff as appropriate, as well as engaging other NHM staff or external contractors to deliver training. The Chair is also responsible for the pastoral care of students, including supporting postdoctoral researchers and supervisors as necessary. The postholder sits on the Graduate Centre committee and liaises regularly with the student committee and is active in the promotion of the Graduate Centre by coordinating student blogs, maintaining the alumni network, coordinating NHM involvement in undergraduate research opportunities programmes and EDI programmes with partner institutions, as well as serving as the primary contact for postgraduate education within the NHM.

About you

The ideal applicant will have a doctorate in a field relevant to NHM Science, experience in teaching, including organising and developing undergraduate or postgraduate courses, and in supervision and pastoral care of students at the undergraduate level or above.

You will have experience in scientific research at the postdoctoral level or above, and you will be passionate about widening participation and inclusion to postgraduate studies in the environmental sciences. You will have experience working well in a team, as well as with leadership of programmes or projects. You will be approachable, supportive of colleagues and students and enjoy exploring new approaches to training.

What we offer

27.5 days holiday plus 8 bank holidays (full time equivalent)

- Generous defined contribution Natural History Museum Pension Scheme (employer contribution 4 - 10%)
- Season ticket, bicycle and rental loan
- Life insurance
- Free admission to our exhibitions and many other paid exhibitions at museums, galleries and institutions across London and the UK.

- Staff discount at our Museum shops and cafes
- We offer a wide variety of training initiatives and opportunities to build skills. Investing in staff development is important to us, and we are ambitious about helping staff to grow and fulfil their potential.
- Affordable membership to the Civil Service Sports Council which offers a range of benefits including an extensive list of special offers and reduced entry fees at a selection of

cinema chains, theme parks, theatres, retailers and supermarkets. It also provides entry to up to 300 English - Heritage sites and other national treasures. For more details, visit <https://www.cssc.co.uk> - Membership to our Sports and Social Association (for a small fee), which includes access to our in-house gym and clubs such as football, softball, table tennis and tennis and classes in Middle Eastern dance, yoga and Tai Chi

Further details at https://careers.nhm.ac.uk/-templates/CIPHR/jobdetail_2322.aspx How to apply If that sounds like you, please apply online on the Natural History Museum's careers portal, at <https://careers.nhm.ac.uk/> Closing date: 5pm, 18 February 2022

Interviews: 28 February 2022

Salary: 40,500 per annum

Please note that this role would not meet UK Visa and Immigration's requirements for a sponsorship visa. As such we are only able to consider candidates who have the existing right to work in the UK.

Anjali Goswami <a.goswami@nhm.ac.uk>

QMU London BiosciencesAI

25 Lecturer/Senior Lecturer positions at Queen Mary University London, including in applications of AI in the biosciences <https://www.qmul.ac.uk/jobs/vacancies/-items/6618.html> I'd like to call attention to this announcement of 25 new academic positions at the Faculty of Science and Engineering at Queen Mary University of London.

To support a new MSc program at the School of Biological and Behavioural Sciences, we expect to appoint as part of this call Lecturers and/or Senior Lecturers who are pioneering applications of AI and big data analytics in the biosciences, including molecular and cellular biology, physiology, biomedicine, evolution, as well as basic and applied ecology at all scales. If you are working in one of these areas, please be encouraged to apply.

The application deadline is 13 March 2022.

Matteo Fumagalli (he/him) 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>

QueenMaryLondon 25 EvolutionaryBiology

See job posting: <https://www.qmul.ac.uk/sbbs/about-us/vacancies/s-e-lectureships/> The School of Biological and Behavioural Sciences (SBBS) is seeking candidates for several new academic positions to enhance its research in strategic areas: Digital Environment, Biosciences, and Green Energy and Sustainability. The Faculty of Science and Engineering has 25 lectureships and senior lectureships (Teaching and Research) to offer, and it is expected that 7 of these will be placed in SBBS.

Our School is home to an active and multidisciplinary research programme addressing themes of Ecology and Evolution, Cell Dynamics and Structural Biology, and Biological and Experimental Psychology. Through collaborative research centres and institutes, our research also addresses the university's cross-faculty themes. Of particular interest to us is the theme on "Green Energy and Sustainability". This theme covers research on environmental systems, biodiversity, conservation and evolution.

Our research addresses major ecological and evolutionary questions at the cell, individual, community and ecosystem levels. We have research strengths in the construction and interpretation of large interdisciplinary datasets, and use a range of experimental, molecular and modelling approaches. Topics that are of relevance to major sustainability challenges include our work on photosynthesis, on major element cycles and on the long-term effects of environmental change on species' ecology and evolution.

We are seeking new Faculty members who are keen on multidisciplinary research addressing major challenges where evolutionary research intersects with green energy, biodiversity and environmental sustainability.

Candidates may contact the following individuals (depending on research interests) if further information on our work in this area is required before applying:

Christophe Eizaguirre, Professor of Evolutionary and Conservation Genetics, c.eizaguirre@qmul.ac.uk

Conrad Mullineaux, Professor of Microbiology, c.mullineaux@qmul.ac.uk

Mark Trimmer, Professor of Biogeochemistry, m.trimmer@qmul.ac.uk

Candidates with established industry collaborations in one or more of these areas are particularly encouraged to apply.

We seek to recruit the most exciting and talented minds in our disciplines. Once with us we will nurture their talents. As a University proud of its record on diversity and inclusion, we are committed to our research and education benefitting society, and in being a welcoming and supportive environment for staff from different backgrounds and life experiences.

The deadline for applications is midnight on Sunday 13th March 2022.

Christophe Eizaguirre Deputy Dean for Research Impact
Head of Biology Department

Professor in Evolutionary and Conservation Genetics
Queen Mary University of London School of Biological and Chemical Sciences Mile End Road, Fogg Building
6.04 E1 4NS London

Twitter: @EizaguirreLab Website: www.qmul.ac.uk/-eizaguirrelab Tel: +44 (0) 207 882 6982 Email: c.eizaguirre@qmul.ac.uk

Christophe Eizaguirre <c.eizaguirre@qmul.ac.uk>

RenecoIntl 4mnth WildlifeConsultants

Reneco International Wildlife Consultants: paid short-term research assistant position

We are seeking a research assistant to help conduct behavioural testing in a captive-bred population of North African houbara bustards (*Chlamydotis undulata undulata*) at the Emirates Centre for Wildlife Propagation (ECWP) in Missour, Morocco. The successful applicant will join an ongoing research project exploring interplays between individual behaviour, cognitive abilities, post-release movements and survival. The assistant tasks will involve behavioural testing of houbara bustards under captive conditions and possibly in the wild, to assess individual temperamental traits (a.k.a. personality) and cognitive abilities (e.g., learning). Data entry and video analysis will also be part of required duties. The position should ideally start beginning of March 2022 and last for a period of 4 to 6 months; however, later start dates (e.g. April 2022) may also be possible. Besides a monthly 600 euros salary, travel expenses, onsite accommodation and food will also be covered.

Successful applicants should have:

* Completed at least three years of undergraduate studies in animal behaviour/ethology or a closely related field. Experience with field/lab research is highly desirable. * Experience with testing and handling of animals, preferably birds. * Fluency in both English and French languages. * Excellent organizational skills and ability to work both independently and in a team. * Attention to detail and ability to closely follow and implement experimental protocols. * Data entry proficiency and, ideally, experience in video analysis

Reneco is a non-profit organization committed to the conservation breeding and protection in the wild of threatened bird species, most notably the houbara bustard, and is active throughout North Africa, the Middle East and Central Asia. To apply, send your CV together with a cover letter detailing your relevant experience and motivation, including contact information for two referees, all in a single PDF document to Dr Enrico Sorato: esorato@reneco.org. Review of applications will start immediately and will continue until a suitable candidate has been found.

SORATO Enrico <esorato@reneco.org> SORATO Enrico <esorato@reneco.org>

Smithsonian LabTech ConservationGenomics

Genetics Laboratory Technician Center for Conservation Genomics Smithsonian Conservation Biology Institute National Zoological Park Washington, DC

We are recruiting a technician to participate in a variety of projects in conservation genomics of birds. The technician will conduct laboratory genomic methods, including library preparation, library capture for Illumina sequencing, and metabarcoding, and some processing of sequence data. The position is available for one year and will begin as soon as possible. Minimum qualification is a bachelor's degree in biology or similar field, or an equivalent combination of education or experience. Demonstrated experience in the laboratory methods noted above is required, but some training is possible where there may be gaps in an applicant's skill set.

To apply, email (1) a brief letter of application containing your interests and experience in genomic analyses (both laboratory and bioinformatics), (2) a current curriculum vitae or resume, and (3) names, addresses and

phone numbers of at least three references to Dr. Robert Fleischer (fleischerr@si.edu). Review of applicants will begin on 10 February. Please contact Dr. Fleischer if you have any questions.

"Fleischer, Robert" <FleischerR@si.edu>

UEvry France EnvGenomicsMetabolism

A junior professor chair in environmental genomics and metabolic modeling is open at the University of Evry-Val-d'Essonne (France) with the Genoscope "Metabolic Genomics" research unit as the host laboratory.

Using bioinformatics approaches combining modeling and integration of multi-omics data, the research project will aim to understand the structure of microbial communities and their adaptation to various environments by determining individual and collective (interactions, symbioses/holobionts) functional capacities.

A package of 400 k euro is associated to this chair for recruitment (PhD student, post-doc, engineer) and other expenses.

For more information:

<https://labgem.genoscope.cns.fr/2022/02/08/chaire-de-professeur-junior-modelomics>

(Job offer in french because required language for teaching)

David Vallenet <vallenet@genoscope.cns.fr>

Uillinois AdaptiveAnimalGenomics DueMar6

FACULTY POSITION ANNOUNCEMENT

Assistant Professor, Adaptive Animal Genomics

College of Agricultural, Consumer and Environmental Sciences

University of Illinois at Urbana-Champaign

Position: Assistant Professor, Full-Time Tenure-Track Faculty Position in Adaptive Animal Genomics in the Department of Animal Sciences.

<https://jobs.illinois.edu/academic-job-board/job-details?jobID=157641&job=aces-assistant-professor-adaptive-genomics-of-livestock-animal-sciences-157641>

WE TRANSFORM LIVES. Everything we do is designed to improve the quality of life of the people in the state of Illinois, across the nation, and around the world. We discover, develop, translate, and disseminate knowledge to address societal concerns and train the next generation of experts and leaders in a way that empowers them to expand the boundaries of science to higher levels of understanding and influence.

The Department of Animal Sciences is inviting applications to a faculty position in the area of adaptive genomics. This position is available through a strategic departmental hiring plan to expand genomic research and education to provide safe, reliable food for a growing world population. Understanding how the genome enables physiological adaptation to environmental changes is critical to improving food animal health, production, and well-being in sustainable and socially acceptable systems. This position encompasses research and teaching in areas including but not limited to (1) genetic adaptations to climate change, or (2) genetic selection for lower greenhouse gas production, or (3) how health and well-being can be maintained through genetically driven adaptations to changes in temperature, immune challenge, and other environmental and management factors. This opportunity builds on our history of diverse research in genetics, nutrition, management, immune and reproductive physiology, and animal systems with application to food production and biomedical research.

The University of Illinois is an Equal Opportunity, Affirmative Action employer that recruits and hires qualified candidates without regard to race, color, religion, sex, sexual orientation, gender identity, age, national origin, disability or veteran status. For more information, visit <http://go.illinois.edu/EEO>. Qualifications: Ph.D.

degree in Animal Science, Genomics, Molecular Biology, Biological Sciences, or similar fields, with a research emphasis on mechanistic approaches to understanding how genomes impact the physiological adaptation of production animals to environmental changes.

Preferred qualifications include a strong record of publication; experience in teaching, mentoring students, and grant writing; and collaborations with the private sector or internationally recognized programs in adaptive animal genomics.

Responsibilities: The successful candidate will develop and maintain a nationally and internationally recognized research program supported by extramural funding, strengthening the preeminence of the Department of Animal Sciences. Teaching responsibilities include

instruction of established courses and the development of new courses in the area of animal genomics.

Proposed Start Date: August 16, 2022, or negotiable.

Salary: Commensurate with qualifications and experience Appointment Details: This 9/12 tenure-track faculty position is 100% FTE Location: The University of Illinois at Urbana-Champaign (www.illinois.edu) is located approximately 120 miles south of Chicago in a metropolitan area of approximately 232,000 people.

Resources: The Department of Animal Sciences has outstanding facilities with convenient access to laboratory and farm animal research units (<https://-ansc.illinois.edu/about/facilities>).

The campus is home to internationally recognized facilities and interdisciplinary programs, including the Carl R. Woese Institute for Genomic Biology (www.igb.illinois.edu), Beckman Institute (www.beckman.illinois.edu), W.M. Keck Center for Comparative and Functional Genomics (www.biotech.uiuc.edu/centers/Keck), National Center for Supercomputing Applications (www.ncsa.illinois.edu), the Center for Digital Agriculture (www.digitalag.illinois.edu), Interdisciplinary Health Sciences Institute (<https://-healthinstitute.illinois.edu/>), and Personalized Nutrition

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UMainz PlantEvolution

The Institute of Organismic and Molecular Evolution at the Faculty of Biology, JGU Mainz

invites applications for the position of

Junior Professor of Plant Evolutionary Ecology

beginning at the earliest date possible.

Salary grade W 1 LBesG with tenure track to W 2

Civil servant with a fixed-term contract

Please apply by under the link Junior Professor of Plant Evolutionary Ecology (uni-mainz.de) with your complete application documents (CV; certificates; lists of

publications and teaching activities; funding record; current research and future research plans; teaching concept) as well as the filled form available at no later than March 27 th, 2022. For questions and further information, please contact the chairperson of the search committee (Prof. Dr. Susanne Foitzik: foitzik@uni-mainz.de).

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hi₂sch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

“Foitzik, Susanne” <foitzik@uni-mainz.de>

UOslo EvolutionaryEcol

Dear Colleagues,

A full-time position as tenured Associate Professor in terrestrial ecology is available at the Department of Biosciences at the University of Oslo, Norway. Note that the position is open for evolutionary perspectives in evolutionary or behavioral ecology.

Brief description

The Department of Biosciences seeks a candidate for the position as Associate Professor within the broadly understood area of Terrestrial Ecology. The successful applicant should have a strong track record and the ability to conduct competitive research at an international level. The ideal candidate should address fundamental biological questions related to terrestrial ecology at a broad level, within at least one, and preferably more, of the fields of disease ecology, statistical ecology, evolutionary ecology or behavioural ecology. Candidates with a strong quantitative background are encouraged to apply. The research should have relevance for achieving the Sustainability goals of the United Nations (UN). The proposed research should strengthen and synergize with the ongoing research activities at the Department, and candidates are encouraged to contact current faculty members to explore these possibilities.

For further information see the following link:

<https://www.jobbnorge.no/en/available-jobs/job/-221530/associate-professor-in-terrestrial-ecology> or contact Paul Grini (paul.grini@ibv.uio.no) in the search committee.

Sincerely,

Thomas F. Hansen Professor, Department of Biosciences, University of Oslo (thomas.hansen@bio.uio.no)

“Thomas F. Hansen” <t.f.hansen@ibv.uio.no>

UPisa EvolutionaryBiology

Subject: researcher in zoology University of Pisa

The following researcher position in zoology at the University of Pisa (Italy) might be of interest for the evoldir community.

Full instructions can be found in the following link (in Italian): <https://bandi.unipi.it/public/Bandi/Detail/-26c25e04-9910-4d4b-a153-c6bc76203548> Dipartimento di Biologia Settore concorsuale 05/B1 Zoologia e antropologia SSD BIO/05 Zoologia n.1 posto

Ambito della ricerca: l'attività di ricerca riguarderà lo studio dei protozoi e dei metazoi invertebrati, della loro evoluzione e biodiversità a livello di organizzazione cellulare, organismica, di popolazione, specie e comunità. Le ricerche, di tipo teorico e sperimentale, saranno condotte sul campo e in laboratorio e affronteranno lo studio della organizzazione morfo-funzionale, interazioni intra- e interspecifiche e con l'ambiente, biogeografia, sistematica e filogenesi dei protozoi e degli invertebrati. In particolare, la tipologia di impegno prevista riguarderà studi teorici e sperimentali preferibilmente basati sull'utilizzo di moderne tecniche di investigazione. Obiettivi di produttività scientifica: gli obiettivi minimi di produttività scientifica consisteranno nella produzione di articoli scientifici pubblicati su riviste di rango internazionale e con IF (1-3 articoli per anno), nella presentazione dei risultati della ricerca in convegni nazionali ed internazionali, nella partecipazione a progetti nazionali ed internazionali di ricerca Sede svolgimento delle attività: Dipartimento di Biologia Attività didattica specifica prevista: l'attività didattica verrà svolta nell'ambito degli insegnamenti con tematiche attinenti al settore BIO/05, e consisterà in lezioni frontali e in attività di esercitazione e laboratorio per gli studenti, in funzione delle esigenze delle prossime programmazioni didattiche anche in relazione ai recenti (Prof. Franco Verni) ed imminenti (Prof. Sergey I. Fokin) pensionamenti. Sono previste inoltre attività di supervisione di laureandi e dottorandi e attività seminariali. La prova orale accerterà la conoscenza della lingua: inglese I candidati possono presentare un numero massimo di 12 pubblicazioni scientifiche, ivi compresa la tesi di dottorato se presentata.

irisarri.iker@gmail.com

UTennessee Chattanooga Genetics

Full job description at https://ut.taleo.net/careersection/utc_faculty/jobdetail.ftl?job=220000003M Assistant Professor of Genetics Department of Biology, Geology & Environmental Science IRIS Position # 50007081 Preference of Letters of Recommendation: Upon Submission (all Candidates)

Description

The Department of Biology, Geology and Environmental Science (BGE) at the University of Tennessee at Chattanooga (UTC) College of Arts and Sciences invites applications for a 9-month tenure-track assistant professor position in Genetics beginning August 1, 2022. We are looking for a biologist, preferably molecular biologist, with research experience and interest in genetics. The candidate is expected to have a strong commitment to undergraduate and graduate education and mentoring. Participation in departmental, college, and university committees and community outreach are expected.

The successful candidate will provide evidence of the ability to: - Teach at undergraduate and graduate levels - Develop a strong independent research program that attracts extramural funding and involves undergraduate and graduate students - Engage in collaborative research - Provide university, community, and professional service.

Teaching responsibilities include Genetics, Molecular Genetics, Genetics Laboratory, and other courses in the candidate's area of expertise. The standard teaching load is three preparations per semester, where laboratory classes count as a preparation. Candidates should be willing to engage in a variety of instructional modalities, including online instruction, and in assisting the UTC campus in its ability to reach additional goals specified in UTC's Strategic Plan. In addition, candidates should demonstrate a commitment to equity, diversity, and inclusion in higher education. We are interested in candidates who have contributed to, or have plans to contribute to, programs that aim to increase the participation of underrepresented students and/or faculty in the sciences. A Ph.D. in Biology or a related field is required, and postdoctoral research experience is desired. In addition, we are interested in candidates whose expertise complements the existing

expertise in the department and support and enhance our undergraduate preprofessional curriculum.

Application Procedures

To be considered, applicants are required to submit the following information through our online application system, https://ut.taleo.net/careersection/utc_faculty/jobdetail.ftl?job=220000003M .- Cover letter/letter of interest including preferred teaching areas and long-term goals - Current Curriculum Vitae, including personal contact information (email, phone, etc.) - Undergraduate and graduate transcripts (may be unofficial) - Statement of research experience and vision - Statement of teaching experience and philosophy (max 2 pages) - Statement on diversity outlining the candidate's previous contributions to diversity, equity, and inclusion and a vision for future activities (max 1 page) - Names, titles, and email addresses for three (3) references, from which UTC will request confidential letters of recommendation.

Review of applicants will begin on February 21, 2022. Preference will be given to those qualified candidates who apply before this date. Questions about the position should be directed to Dr. Gretchen Potts, Interim Department Head, at Gretchen-Potts@utc.edu.

BGE has 33 full-time faculty with more than 850 majors and offers B.S. Biology, B.S. Geology, B.S. Environmental Science, and M.S. Environmental Science degrees. The University of Tennessee at Chattanooga is the second largest school in the University of Tennessee System, serving a diverse student body of more than 11k undergraduate and graduate students through five academic colleges.

UTC offers a unique blend of private and public school traditions and is a driving force for achieving excellence, embracing diversity, inspiring positive change, and enriching the community. Since its founding as Chattanooga University in 1886, UTC has developed a reputation for excellence built on an unusual blend of the private and public traditions of American higher education. For more than 83 years, the university was a private school. In 1969, UTC became part of the state university system. Today, UTC is on a journey to excellence - boldly embracing a passion for excellence in all things and focused on changing lives and transforming communities. The UTC commitment - each and every day - is to earn the trust and confidence of those we serve. Our goal is to make a difference in our community and in the lives of our students.

Chattanooga, the fourth largest city in the state, is located in Southeast Tennessee near the border of Georgia at the junction of



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

UTyumen EvolutionaryBiol

Subject: Professor of Biology (open rank) at the School of Advanced Studies, UTyumen, Russian Federation.

The School of Advanced Studies is looking for an evolutionary biologist or an ecologist. Joint appointments with the Institute of Environmental and Agricultural Biology (X-BIO) possible. For more information and submitting an application, please see the full ad:

<https://euraxess.ec.europa.eu/jobs/745775> “Daniel Kontowski” <d.kontowski@utmn.ru>
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UTyumen EvolutionaryBiology

Subject: Professor of Biology (open rank) at the School of Advanced Studies, University of Tyumen, Russian Federation.

The School of Advanced Studies is looking for an evolutionary biologist or an ecologist. Joint appointments with the Institute of Environmental and Agricultural Biology (X-BIO) possible. For more information and submitting an application, please see the full ad:

“Daniel Kontowski” <d.kontowski@utmn.ru>

Daniel Kontowski Associate Director for Education, School of Advanced Studies <<http://sas.utmn.ru/>> University of Tyumen, Siberia, Russia

Daniel Kontowski <d.kontowski@utmn.ru>

UVirginia ResTech DrosophilaEvolution

We are Hiring! The Bergland Lab (<https://www.berglab.org/>) in the Department of Biology at the University of Virginia is looking to hire a Lab and Research Technician 1 (RT1) to assist in ecological and evolutionary genetics research. In this position, you will receive training and be responsible for day-to-day lab management, maintenance of Drosophila stocks, field work, conducting molecular work with DNA/RNA, phenotype assays with flies, public outreach, and managing of undergraduates. Successful candidates must work well with others and have a willingness to learn and take on new challenges. Candidates may also participate in supervised, independent research projects. This is a 12-month appointment. A one-year renewal is possible contingent upon performance. Starting salary is \$35,000/y. Start date is expected late spring to early summer 2022. Minimum requirements: Bachelors degree (BA/BS) in Biology or similar field, experience with laboratory research (independent or supervised research preferred; course-based research minimum). Experience working with Drosophila or other insect/invertebrate systems preferred. Experience with field work preferred. Evidence of written and verbal scientific communication skills preferred.

Apply here: https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/BIOL—Bergland-Lab-Tech-1_R0031535 If you have questions about the position, please reach out to Alan Bergland at aob2x@virginia.edu

Alan Bergland (he/him) | Assistant Professor, Department of Biology | University of Virginia PO Box 400328 | Charlottesville, VA 22904 <https://www.berglab.org/> | <https://www.EEBvirginia.org/> | <http://bio.as.virginia.edu> | <https://dest.bio>

“Bergland, Alan Olav (aob2x)” <aob2x@virginia.edu>

UWyoming ForestEvolutionaryEcology

Assistant Professor of Forest Ecology. The University of Wyoming seeks to hire a tenure-track faculty member with expertise in forest ecology. The appointment will be as an Assistant Professor in the Department of Botany (<http://www.uwyo.edu/botany>). The successful candidate will build a strong externally funded research program in forest ecology to advance our understanding of forest dynamics in a rapidly changing world at any level of biological organization or spatio-temporal scale. Possible areas of expertise include, but are not limited to, population and community responses to changing climate and disturbance regimes, traditional ecological knowledge of forest ecology and management, evolutionary ecology of forests, plant physiological ecology, forest ecosystem ecology, spatial analysis and remote sensing, computational statistical modeling, and mechanistic process-based modeling. Review of applications will begin March 10, 2022. Complete on-line application here: https://eeik.fas.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/213438/?utm_medium=jobshare Daniel Laughlin <daniel.laughlin@uwyo.edu>

Vienna PlantAnimalInteractions

At the Faculty of Life Sciences of the University of Vienna the position of a

Tenure-Track Professorship for the field of Plant-Animal Interactions

(full-time position) is to be filled.

Applicants have a strong record in studying evolutionary patterns and processes underlying mutualistic or antagonistic plant-animal interactions and their consequences for ecological networks. We expect the successful applicant to develop a competitive research programme in the field. The University of Vienna offers excellent research conditions including well-equipped laboratories, a herbarium, a Botanical Garden, and access to a tropical research station (La Gamba, Costa Rica). The

candidate is expected to teach on all academic levels.

Successful candidates should have the following qualifications: - Doctoral degree/PhD and at least two years post-doctoral experience at a university or other research institution; as a general rule, applicants must have gained research experience outside the University of Vienna for a total of at least two years during or after their doctoral studies - Outstanding achievements and potential in research, excellent publication record, international reputation - Experience in designing and participating in research projects, ability to lead research groups, willingness to acquire third-party funding - Potential for successfully acquiring an ERC Starting Grant or an ERC Consolidator Grant (depending on career level) or comparable renowned funding within the qualification period. - Enthusiasm for excellent teaching, teaching experience at universities or a teaching concept. Candidates are expected to be willing to teach students at all levels (bachelor's, master's, or doctoral level), to supervise academic theses and to promote junior colleagues

The University of Vienna expects the successful candidate to acquire, within three years, proficiency in German sufficient for teaching in bachelor's programmes and for participation in university committees.

We offer: - the opportunity to obtain a permanent position and eventual promotion to full professor. The successful candidate is hired as "Assistant professor" for a maximum duration of six years. If the candidate meets the conditions stipulated in the qualification agreement, the assistant professor is promoted to tenured "associate professor", i.e. obtains a permanent position. If the conditions are not met, the employment will end upon expiry of the contract. Associate professors can be promoted to "full professor" through a university-internal competitive procedure. - at least a salary according to the Collective Bargaining Agreement for University Staff: section 49, job group A2 - in addition to the statutory social insurance, the University of Vienna offers a pension scheme to its employees - a dynamic research environment - attractive working conditions in a city with a high quality of life - a wide range of support services offered by central service institutions

The University of Vienna is an equal opportunity employer and values diversity (<http://diversity.univie.ac.at>). The University strives to increase the share of women in professorial positions. Given equal qualifications, preference will be given to female applicants.

Application documents: Please submit a $\ddot{i}_i \frac{1}{2}$ single PDF document $\ddot{i}_i \frac{1}{2}$ named "LastName_FirstName.pdf" to $\ddot{i}_i \frac{1}{2}$ tenuretrack.personal@univie.ac.at $\ddot{i}_i \frac{1}{2}$ containing

the following information (in $\frac{1}{2}$ English). 1. Cover Sheet and Table of Contents 2. Letter of motivation 3. Academic curriculum vitae o key terms that best describe your own research interests o education, degrees (incl. information about the PhD granting institution and the exact date DD.MM.YYYY when the PhD was conferred) o professional experience o applicable parental leave, family or other care times, . o scientific or scholarly “esteem factors” (e.g. experiences as a publisher, functions in research societies or programme committees) o previous and current cooperation partners o complete list of acquired third-party funded projects as principal investigator (role, subject, duration, funding agency, funding volume), and, if applicable, of inventions/patents o list of most important scientific talks (max. 10) o list of courses taught o list of theses supervised 4. List of publications o link to own ORCID iD record o if common in your field of research provide information about indexation in data bases such as SCIE, SSCI, AHCI, citations resp. book reviews received or other indicators of scientific quality/international visibility (best paper award, etc.) 5. Research statement o explain your previous research achievements (max. 2 pages) and future research plans (max. 4 pages) o name the three most important publications with an explanation of their relevance for this tenure track professorship

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WSL Swizerland ForestEvolution

Swiss Federal Institute for Forest, Snow and Landscape Research WSL

The Research Unit Forest Health and Biotic Interactions investigates the influence of biotic factors on forest health and develops scientific basis for the protection of forests against harmful organisms. Following the retirement of the current group leader, we are looking from October 2022 for a (f/m/d): Group Leader Phytopathology (80-100% working percentage)

You will be responsible for the strategic development and the staff of the Phytopathology group. You will lead a group of about 5 permanent staff members and several PhD students, postdocs and other temporary staff in scientific, technical and administrative matters. The main focus of this group is on research on forest pathogens, especially invasive fungi and oomycetes, and their interactions with host trees and other organisms such as insect vectors or antagonistic microorganisms. Your research is expected to provide the scientific basis for the prevention and management of harmful tree diseases. A modern plant protection laboratory is available, which includes state-of-the-art biosafety level 2 and 3 laboratories and a biosafety level 3 greenhouse. Also integrated into the group is a molecular diagnostics laboratory, which fulfils national tasks in forest protection. For your research you will acquire funding from national and international institutions and publish your results in recognized ISI journals.

You have a university degree with a dissertation in forest pathology, international postdoctoral experience with several years of independent research, knowledge of statistical data analysis, and an excellent publication record. You are familiar with the Swiss forest context. You have leadership experience, successfully acquired third-party funding and are motivated to foster research in the unique plant protection and biosafety laboratory of WSL. You are communicative, have a team-building personality and you enjoy challenging yourself and the group to develop the group's research. You are proficient in English and German and ideally a second Swiss national language.

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 600 people work on the sustainable use and protection of the environment and on the handling of natural hazards.

Please send your complete application to Michèle Bucher, Human Resources WSL, by uploading the requested documents through our webpage. Applications via email will not be considered. Dr. Eckehard Brockerhoff, phone +41 44 739 26 95 will be happy to answer any questions or offer further information. WSL strives to increase the proportion of women in its employment, which is why qualified women are particularly called upon to apply for this position.

deborah.leigh@wsl.ch

Other

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BioGeoBEARS AssistanceRequest

Hi Folks,

A reviewer has asked me and my PhD student to add a BioGeoBEARS analysis to a manuscript before resubmission. The editor has only given us 3 weeks to make revisions, and the publication only permits 2 rounds of review. If we don't get this right, the manuscript will be tossed.

We don't have prior experience with this software and we can't find a local BioGeoBEARS user to help us get started. Is there anyone out there with familiarity with BioGeoBEARS who also has some time to virtually coach a student (who already knows R) through the early part of the learning curve?

Thanks, Jeff

Dr. Jeffrey M. Marcus Professor Department of Biological Sciences University of Manitoba Winnipeg MB. R3T 2N2 Canada jeffrey.marcus@umanitoba.ca

Jeffrey Marcus <Jeffrey.Marcus@umanitoba.ca>

ClarksonU REU MathBio

NSF REU opportunity summer 2022 - Mathematical Biology Team Science Research Experience for Undergraduates (MBioTS REU) at Clarkson University, Potsdam NY

Clarkson University's Biology and Mathematics Depts are recruiting eight undergraduate students from a diverse range of academic backgrounds for our Mathematical Biology Team Science Research Experience for Undergraduates (MBioTS REU) program. This ten-week full-time summer research experience runs from May 23rd - July 30th, 2022, and aims to introduce students to collaborative research at the intersection of biology and mathematics. <https://www.clarkson.edu/-mbiotics-research-experience-undergraduates-reu> Program overview: - An immersive team science research experience using both experimental and theoretical approaches to tackle a range of biological questions from ecology, evolution, cell biology, and public health. - Financial package including: - \$5000 summer research stipend - \$120/ week food stipend (10 weeks) - Round trip travel to and from Potsdam, NY - On campus housing with a kitchenette - Each participant will focus on either the biological or mathematical aspect of their

collaborative team research but will gain exposure to both. - An emphasis on building skills for collaborative research and effective communication across disciplines. - Close mentoring from experienced faculty in both the Biology and Mathematics Departments at Clarkson University. - Regular research and professional development seminars, social events, and field trips.

Applicants must be: - Excited about doing collaborative science in Biology and Math! - A citizen or permanent resident of the United States. - Enrolled in an undergraduate college program for the Fall 2022 semester. - Completed Calculus II or equivalent. - Fully vaccinated for COVID-19 (including booster) and willing to observe Clarkson University's on-campus masking and social distancing regulations.

For more information on the program, research projects or to apply please visit: <https://www.clarkson.edu/-mbiots-research-experience-undergraduates-reu> For questions, contact the program co-directors: Dr. Susan Bailey, Biology Dept, Clarkson University, sbailey@clarkson.edu Dr. James Greene, Mathematics Dept, Clarkson University, jgreene@clarkson.edu

Susan Bailey <sbailey@clarkson.edu>

Conservation NewGrantOpportunity

The conservation non-profit Revive & Restore has recently launched the "Biotechnology for Bird Conservation Program." Through this program, they have opened a request for proposals targeting the advancement of reproductive technologies and gene-editing techniques for the entire evolutionary diversity of birds to enable advanced genetic rescue techniques for the world's threatened birds, which to date has posed a challenge due to the difficulties of applying mammalian technologies, like in vitro fertilization and cloning, to egg-laying reproduction.

The deadline to apply to this grant opportunity is May 1, 2022. We are requesting that researchers intending to apply send a letter of intent in advance of their proposal. I hope you will consider submitting a proposal. The advances made by researchers funded by this program will forge a brighter future for the world's birds and wildlife conservation. Please send any inquiries to the Program Manager, Ben Novak, at ben@reviverestore.org.

Ben J. Novak Lead Scientist & Biotechnology for Bird Conservation Program Manager Revive & Restore

ben@reviverestore.org 828-489-1583

Watch our TED Talkon "Intended Consequences of Helping Nature Thrive" Or listen on Apple Podcasts

Ben Novak <ben@reviverestore.org>

CUNY Brooklyn SummerREU UrbanAdaptation

Hi all,

Brooklyn College and the City University of New York are now accepting applications for our summer REU in Urban Ecology and the Environment (BUEE) that will run this summer from June 6 through August 12. BUEE offers an integrative summer research program aimed at developing early-career undergraduate students into mature and thoughtful environmental scientists - many of our research projects have a strong evolutionary focus, and investigate how plants and animals adapt to urban environments.

BUEE couples authentic research experiences together with practical experience in research design, scientific communication and community outreach, leveraging the unique academic and research resources at Brooklyn, including a state-of-the-art Aquatic Research and Environmental Assessment Center < <http://www.brooklyn.cuny.edu/web/academics-centers/areac.php> >, CUNY's Advanced Science Research Center < <https://asrc.gc.cuny.edu/> > and the interdisciplinary Science and Resilience Institute at Jamaica Bay < <http://www.srijb.org/> >, focused on urban sustainability and resilience. Students are provided with a competitive stipend, housing and food allowances, and relocation credit for travel from outside the region. Applications from STEM-underrepresented students are especially encouraged.

More information on the program, including potential projects, can be found at the program homepage at buee.brooklyn.cuny.edu, or by contacting the program PI at buee@brooklyn.cuny.edu. Application materials should be submitted online before April 1.

Please spread the word, and share the program with research-oriented students interested in learning more about ecology and evolution in an urban environment.

Best,

Tony Wilson, BUEE PI

buee <buee@brooklyn.cuny.edu>

EcologyLetters SpecialIssue

Announcement Special Issue Ecology Letters

Exploring the border between ecology and evolution

Object: Special issue of Ecology Letters “Exploring the border between ecology and evolution”

Dear colleagues,

Ecology Letters and INEE CNRS are happy to announce that Ecology Letters will publish a special issue entitled “Exploring the border between ecology and evolution” for the 25th anniversary of the journal. This special should be delivered by the end of 2022 or beginning of 2023.

The special issue is motivated by the need to develop deeper links between ecology and evolution. This call is not new, as shown particularly in conceptual and epistemological work. However, its importance has been reaffirmed since the early 2000s and we have seen a gradual rise in research explicitly blending the two perspectives. Numerous (non-exhaustive) reasons can be invoked: the recognition that evolutionary processes can occur at similarly short time-scales as ecological processes; the fact that all spatial scales are relevant in both disciplines; convergence on using a variety of analytical methods (e.g., omics, imaging); analogous forces acting upon various levels of biodiversity; and the holobiont concept linking microbial and larger organisms. However, integrative approaches coupling ecological and evolutionary dynamics through analyses of reciprocal feedbacks remain rare compared to mainstream research in either field, calling for new research, ideas and perspectives. Fostering an integrative approach appears to be particularly relevant in times of marked environmental change and biodiversity loss at the planetary scale, which strongly affects multiple dimensions of both ecological and evolutionary dynamics, with repercussions for the resilience, conservation and management of populations, communities and ecosystems.

Based on this finding, the objectives of this special issue are (i) to advance the conceptual bases of coupled ecological and evolutionary dynamics, (ii) to present original findings from both empirical and theoretical studies, and (iii) to explore innovative research directions for the future. We particularly welcome papers that propose new ideas and approaches to deepening integration, reflect

on concepts and semantics, including epistemological and other philosophical perspectives, address the issue of temporal and spatial scales, and consider responses to global change (e.g., adaptation vs. range or community shifts), specific taxa (e.g., are micro-organisms different?), and eco-evolutionary dynamics in particular settings (e.g., urban or Arctic environments).

If you are interested in contributing a Synthesis, Perspectives, Letters, Viewpoints, Methods paper that addresses linkages between ecology and evolution, please send a letter of interest to Stéphane Hello (ecolets2@cefe.cnrs.fr) by March 15 2022. Letters should be less than a page and outline the basic ideas of your intended contribution. They will serve to explore the interest of the scientific community in the special issue, and as a basis to commission selected papers, including suggestions to prospective authors to cover related or complementary topics or to combine proposals. However, since the call for papers is open, proposals by authors not explicitly invited to submit a full paper and/or who did not send a letter of interest, will equally be welcome to submit a paper. Importantly, all papers, whether commissioned or not, will undergo the normal review process of EL. Manuscripts to be considered should be received by early September 2022.

Sincerely yours,

Peter Thrall, EL chief editor Stéphane Blanc, INEE director, CNRS

Philippe Jarne UMR Cefe - campus CNRS 1919 route de Mende 34 293 Montpellier France 06 32 99 51 46 <https://www.cefe.cnrs.fr/> Philippe JARNE <philippe.jarne@cefe.cnrs.fr>

ESEB EqualOpportunitiesInitiativeFund DeadlineMar31

** ESEB EQUAL OPPORTUNITIES INITIATIVE FUND **

The European Society for Evolutionary Biology is pleased to announce the open call for proposals for activities that increase knowledge and awareness of unequal opportunities. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal

how the activity will improve our knowledge and awareness of inequalities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general. There are two calls per year, with the next upcoming deadline being the 31 Mar 2022. More information about the Equal Opportunities (EO) Initiative is available at <https://eseb.org/prizes-funding/equal-opportunities-initiative/equal-opportunities-initiative-fund/>. *ELIGIBILITY*

- The main applicant must be ESEB member (to become a member of ESEB, please visit <https://eseb.org/society/eseb-membership/>) - Applications can be submitted by scientists at any stage of a professional career (e.g., undergraduate, Masters and PhD students, post-docs, and lecturers). - Applicants must provide proof of support of the host institution where the activity should take place, if applicable (letter from head of department) - Applicants must explain explicitly how their activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Applicants must detail which group of people, and how many, will benefit from this activity (for instance, 50 undergraduates, 10 graduate students, 15 faculty members) - Budgets should be reasonable (usually not exceeding 1000 EUR, if more is required, please contact EO committee first), and, if applicable, detail costs per person (that benefit from this event).

HOW TO APPLY

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

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

Deadline 31 March 2022

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

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

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 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 Gonzlez, Chair (ES) Delphine Sicard (FR) Rhonda R. Snook (SE) Hildegard Uecker (DE) Karine Van Doninck (BE)

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

Hemimetabolous Insect Survey

Dear Colleagues,

I'm writing to ask for your help in developing new functional genetic tools to improve the study of hemimetabolous insects.

I am planning to invest some of my lab's resources towards this effort in the coming years, and I would like to choose insects for study that will be of greatest practical use to as many scientists as possible. To that end, I would like to invite as many members of the international entomological community as possible, to provide their feedback and suggestions on which species we should choose.

I have composed a short survey to gather this information from anyone who would like to volunteer their input:

<https://www.surveymonkey.com/r/TRFVVVLX> I would welcome your feedback and would also ask you to please circulate the link to this survey to your network of interested colleagues. If it would be less work for you, I would also be happy to send it to suggested colleagues directly, if you would prefer to send me their names and contact emails.

Many thanks for your help, and for your leadership in evo-devo.

Cassandra Extavour

Investigator, Howard Hughes Medical Institute Timken Professor of Organismic and Evolutionary Biology and of Molecular and Cellular Biology Harvard College Professor

<http://www.extavourlab.com> Harvard University 16 Divinity Avenue, BioLabs 2087 Cambridge, MA 02138, USA Tel. 1 617 496 1935 extavour@oeb.harvard.edu

Extavour Lab Administration: Esther Jules, Research Coordinator Tel. 1 617 496 2132 ejules@fas.harvard.edu Dr. Evelyn Schwager, Lab Manager Tel. 1 617 496 1663 schwager@fas.harvard.edu

EDEN: Evo-Devo-Eco Network <http://www.edenrcn.com> edenrcn@fas.harvard.edu

“Extavour, Cassandra” <extavour@oeb.harvard.edu>

Internship Austria UGlasgow Fieldwork Volunteers Spring Summer

Field assistant volunteers/interns needed - Field study of the Eurasian common lizard

Research interns are needed to assist in an ongoing study of reproductive modes of the Eurasian common lizard, *Zootoca vivipara*. *Z. vivipara* is a small insectivorous lizard with a broad palearctic distribution, with both oviparous and viviparous lineages extant in its European heartland.

We study the ecology, behaviour and evolution of this fascinating species using a unique natural experiment site based in southern Austria. The project is organised by a team of researchers based at the University of Glasgow (UK) led by Professor Kathryn Elmer at the Institute of Biodiversity, Animal Health and Comparative Medicine.

Internships will run from approximately late April to late July/early August 2022.

Duties will include assisting in all aspects of fieldwork at the site, including but not limited to collection of wild lizards by hand, recording and measurement, care and husbandry, assisting with experiments, and contributing to communal camping/ household tasks. Training will be provided. There may also be opportunity for leading or contributing to your own project within the team.

Fieldwork is physically demanding and will take place outdoors in a remote rural location, with fieldworkers based at a commercial campsite for the duration. Interns must be comfortable with living and working collaboratively with others in a small group and long-term camping; maintaining good relations with the team and local community is essential.

All main expenses (food, camping/accommodation fees, etc) and travel costs for arrival and departure will be covered (up to ~400). More details available upon request. Interns must provide their own tent, bedding, and outdoor clothing/personal equipment. We can welcome team members from anywhere in the world!

Qualifications: We are seeking interns with an interest in herpetology, ecology and/or evolution and who

are very keen for gaining experience in the field. Good interpersonal and team working skills are essential, as interns will be living and working with the field team in close quarters for an extended period. Additionally, applicants must be physically able and willing to work outdoors in challenging conditions (including inclement weather and traversing steep or boggy terrain). Prior experience of fieldwork and/or working with lizards and other herpetofauna is ideal, but not essential. We would particularly welcome applicants who hold a full driver's licence: please mention this on your application, if applicable, as well as any prior experience working with lizards or other fieldwork experience. Knowledge of/fluency in German would also be an asset. We particularly seek interns who can commit to the duration of the entire field season - please clarify your availability in your application.

Applicants should send a cover letter (including aspects noted above) and CV along with the names and email addresses of two or more professional or academic references to: Kathryn.Elmer@glasgow.ac.uk

Informal inquiries in advance of application are welcome. Review of applications will begin 1 March and continue until a team is assembled; we plan on completing the decision by the end of March.

Kathryn Elmer <Kathryn.Elmer@glasgow.ac.uk>

Lapland Field Assist Siberian Jay

Expenses-paid field assistant positions for a project investigating dispersal of Siberian jays in Swedish Lapland

For the upcoming field season, Summer-Autumn 2022 (mid June-October; see below), we are looking for 3 highly motivated, expenses-paid field volunteers to assist with our field project (principal investigator Dr. Michael Griesser, University of Konstanz). The study site is located near Arvidsjaur in Swedish Lapland. An overview over our past work can be found here: <https://www.youtube.com/watch?v=JaH6wjAYAiE> We are looking for 2 assistants for the whole period 15.6.-31.10.2022, and 1 assistant from 15.6.-31.8.2022.

Our current project investigates the effect of social interactions on the dispersal of Siberian jays. The work of the field volunteers will be to help with catching, radio-tagging and colour-ringing birds, sampling blood, conducting population censuses and behavioral observations, and managing data. This work will provide

insights into a long-term study system and will be carried out in managed and pristine boreal forests.

Please note that daytime temperatures at the end of the season can be as low as -15C. Fieldwork at times involves walking up to 15km per day and can be physically strenuous.

Qualifications: 1) Field work experience, involving behavioural observations and experiments 2) Bird ringing and mist-netting experience 3) Radio tagging and radio tracking experience is a plus 4) Ability to work in small teams and sociable personality 5) Driver's license (manual transmission) 6) Fluent in English 7) Highly motivated

We will cover accommodation, travel expenses from and to the study site (up to 340 euros return), as well as on-site living expenses (food).

Applications, including a CV, 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 28 March 2022 will be given full consideration.

Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

Michael Griesser <michael.griesser@uni-konstanz.de>

LinneSys Systematics Research Fund Webinar

Webinar Linné's Systematics Research Fund

Text:

The Systematics Association and Linnean Society will hold a webinar on the Linné's Systematics Research Fund on Thursday 24th February at 3 pm GMT .

The joint fund of the Linnean Society and the Systematics Association, the Linné's Systematics Research Fund provides grants annually for small-scale research and education projects in the field of taxonomy and systematics on any organism group from microscopic to macroscopic past and present.

The webinar will outline the remit, eligibility criteria and project application and answer all questions you may have.

Register using the link below:

<https://us02web.zoom.us/meeting/register/tZMrc-mppj4vHtbRz2ug3s69DvVI-sj6YcMS> Anne D. Jungblut
Grants and Awards Officer

Systematics Association

Anne Jungblut <a.jungblut@nhm.ac.uk> Anne Jungblut <a.jungblut@nhm.ac.uk>

OmennPrize 000 BestEvolutionaryMedicineArticle

Nominate an article for the \$5000 Omenn Prize for best article on a topic related to evolution in the context of medicine and public health.

Full information at <https://isemph.org/Omenn-Prize>
The \$5000 Gilbert S. Omenn Prize is awarded by the International Society for Evolution, Medicine, and Public Health (<http://isemph.org>) for the best article published in the previous calendar year on a topic related to evolution in the context of medicine and public health.

Nominations are open until April 8, 2022 for the best article in any peer-reviewed journal on a topic related to evolution in the context of medicine and public health with a final publication date in 2021. The winning article will be announced May 1, 2022 and the prize will be awarded to the first author of the article who will be invited to give a plenary talk at the 2022 ISEMPH Annual Meeting July 5-9 in Lisbon, Portugal.

All peer-reviewed articles with a publication date of 2021 that use evolutionary principles to advance understanding of a disease or disease process are eligible. The prize committee will give priority to articles with implications for human health, but many basic science or theoretical articles have such implications. Authors are encouraged to nominate their own articles, but nominations of articles by others are also welcome. Articles by author's with close associations with members of the prize committee are not eligible.

The prize is made possible by a generous donation by Gilbert Omenn, M.D., PhD. Director of the Center for Computational Medicine and Bioinformatics at the University of Michigan where he is a Professor of Internal Medicine, Human Genetics, and Public Health. Dr. Omenn served as Executive Vice President for Medical Affairs as Chief Executive Officer of the University of Michigan Health System from 1997-2002. He is a

past president of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academy of Sciences.

This year's prize committee is chaired by Caleb Finch.

Randolph Nesse <nesse@asu.edu>

PaidInternships 2 EvolutionaryGenetics

Two paid scientific internships in evolutionary and ecological genetics

Nick Barton's group at the Institute of Science and Technology (IST) Austria (<https://bartongroup.pages.ist.ac.at/>) is currently recruiting two paid scientific interns to assist with a long-term study of plant speciation in the common snapdragon, *Antirrhinum majus*. The positions will begin in early-mid May 2022, for a minimum of 6 months and up to 12 months (open to discussion).

The project: We study evolutionary dynamics and speciation in snapdragons. The study, which has been running since 2009, involves fieldwork in natural hybrid zones between two subspecies with flower colour differences. The goal is to understand how different evolutionary forces like natural selection have shaped this diversity.

The positions: We are looking for people to help support the project by (i) participating in fieldwork, (ii) assisting with the daily management of field volunteers, and (iii) providing technical and scientific support after the fieldwork is complete. The internship will have 2 phases: for the first 3 months (during the field work), the applicants will be based in the Spanish Pyrenees near the town of Planoles; the second phase will be based at the Institute of Science and Technology (IST) Austria. All costs of the fieldwork (travel, food, accommodation, covid testing, and insurance) are covered, and affordable accommodation in Austria is available through IST Austria (at the expense of the applicant).

Essential skills Applicants must be enthusiastic, hard-working, and be comfortable working outdoors. Strong communication skills, organization skills, and the ability to live and work well with others are a must. A driving license is essential.

Desirable skills Ideal applicants will have some fieldwork experience and have a strong interest in evolution,

ecology and/or speciation. Prior research experience, including the curation and analysis of data, would be helpful. The ability to speak Catalan and/or Spanish is very useful. Applicants from Catalonia and Spain are especially welcome.

How to apply Applicants should send a motivation letter (addressing the skills mentioned above), CV and the names two references to Sean Stankowski (sean.stankowski@ist.ac.at). The review of applications will start on the 10th of March and will remain open until filled.

More information Questions about the positions can be sent to the same address. More information about scientific internships at IST can be found here: <https://phd.pages.ist.ac.at/scientific-internships/> Sean STANKOWSKI <sean.stankowski@ist.ac.at>

RequestFeedback Hemimetabolous- ModelSpeciesChoice

Dear Colleagues,

I'm writing to ask for your help in developing new functional genetic tools to improve the study of hemimetabolous insects.

I am planning to invest some of my lab's resources towards this effort in the coming years, and I would like to choose insects for study that will be of greatest practical use to as many scientists as possible. To that end, I would like to invite as many members of the international entomological community as possible, to provide their feedback and suggestions on which species we should choose.

I have composed a short survey to gather this information from anyone who would like to volunteer their input:

<https://www.surveymonkey.com/r/TRFVVVLX>

Hemimetabolous Insect Species Tool Development <<https://www.surveymonkey.com/r/TRFVVVLX>> Take this survey powered by [surveymonkey.com](https://www.surveymonkey.com). Create your own surveys for free. www.surveymonkey.com I would welcome your feedback and would also ask you to please circulate the link to this survey to your network of interested colleagues. If it would be less work for you, I would also be happy to send it to suggested colleagues directly, if you would prefer to send me their names and contact emails.

Many thanks for your help, and for your leadership in evo-devo.

Cassandra Extavour

Dr. Cassandra Extavour

Howard Hughes Medical Institute Investigator Timken Professor of Organismic and Evolutionary Biology and of Molecular and Cellular Biology Harvard College Professor Harvard University

<http://www.extavourlab.com> 16 Divinity Avenue, Bio-Labs 2087 Cambridge, MA 02138, USA

extavour@oeb.harvard.edu

Office Tel. 1 617 496 1935 Lab Tel. 1 617 496 1949/1200 Fax. 1 617 496 9507

Extavour Lab Administration: Rosa Capellan Tel. 1 617 496 2132 rosacapellan@fas.harvard.edu

EDEN: Evo-Devo-Eco Network <http://www.edenrcn.com> edenrcn@fas.harvard.edu

"Extavour, Cassandra" <extavour@oeb.harvard.edu>

REU MultipleInst Thermofly May30-Jul31

Summer Research Opportunity for Undergraduates in Physiological Genetics and Evolution

We are currently accepting applications from undergraduates who live or attend college in EPSCoR jurisdictions (Alabama, Alaska, Arkansas, Delaware, Guam, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Puerto Rico, Rhode Island, South Carolina, South Dakota, Vermont, Virgin Islands, West Virginia, or Wyoming) to participate in a National Science Foundation-funded summer research program in genetic, physiological, and evolutionary mechanisms of temperature tolerance in *Drosophila* from May 30 - July 31, 2022. Students will join a laboratory at one of our five participating institutions, The University of Kentucky, University of Vermont, Providence College, Salve Regina University, or University of Nevada Las Vegas, and work in teams on research projects that will include both field and laboratory components as well as training in data analysis and visualization. No prior research experience is required; all you need is a year of college-level biology coursework, enthusiasm for biology, and a desire to engage with the

exciting process of scientific discovery.

To find out more and to apply, please visit thermofly.org and fill out the online application form. Members of traditionally under-represented groups in STEM are particularly encouraged to apply. We will begin reviewing applications on March 1.

To find out more about our laboratories, please visit: Dr. Nicholas Teets, University of Kentucky: <http://www.teetslab.com/> Dr. Seth Frietze, University of Vermont: <https://www.uvm.edu/cnhs/bhsc/profiles/-seth-frietze-phd> Dr. Brent Lockwood, University of Vermont: <https://lockwoodlab.weebly.com/> Dr. Sara Helms Cahan, University of Vermont: <http://shelmscahan.github.io/> Dr. James Waters, Providence College: <https://www.lovetheants.org/lab/> Dr. Donald Price, University of Nevada Las Vegas: <https://www.unlv.edu/people/donald-price> Dr. Sara Helms Cahan She/her pronouns Associate Professor Department of Biology University of Vermont 109 Carrigan Dr. Burlington, VT 05405 (802)656-2962 scahan@uvm.edu

Sara Cahan <scahan@uvm.edu>

I'm sorry, if you receive this mail at weekends, in your holidays or in non-office hours. Of course I don't expect you to answer immediately. Thanks for understanding!

IMPORTANT: I can't receive any old Windows Office file formats like doc or xls files for security reasons.

Head of sDiv - Synthesis Centre of iDiv

Homepage

https://www.idiv.de/groups_and_people/employees/-details/eshow/winter_marten.html Twitter

@sMarten_Winter sDiv google scholar <https://scholar.google.com/citations?hl=en&user=YHISZpUAAAAJ>

German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig Puschstraße 4 04103 Leipzig Germany

iDiv is a research centre of the DFG - Deutsche Forschungsgemeinschaft

"Winter, Marten" <marten.winter@idiv.de>

sDiv Germany FundingForSynthesisProjects

Dear all, (sorry for crossposting!)

I hope everyone is fine in these messy times!

sDiv, the synthesis centre of iDiv, the German Centre for Integrative Biodiversity Research (www.idiv.de/sdiv) has opened a new call for synthesis projects.

§What? A call for Early Career Researcher Working Groups(ECR) and Modular Synthesis Projects (SynFlex)

§When? Deadline for Pre-Proposals: 22nd March

§What else? With this call, we want to specifically encourage applications from researchers and topics from regions that are often underrepresented in science (see for more details the call website).

§Where can I find more about it? Please see for details www.idiv.de/sdiv/calls . Please distribute this call widely into your networks & to relevant colleagues.

Feel free to ask my related questions.

Thanks a lot & stay healthy Cheers

sM(arten Winter) Head of sDiv

Seminar ESEB STN Speciation Feb8

Dear colleagues,

The second session of the monthly online seminar series organised by the ESEB-funded STN network « Integration Of Speciation research » (for more info : [<https://speciation-network.pages.ist.ac.at>]) will be held on Tuesday the 8th of February 2022, 9 am CET. This second session, of a series of three addressing the general topic of how to bridge the gap between micro- and macro-evolution in speciation research, will focus on how the study of adaptive radiations can help bridge this gap.

We will welcome as speakers Renshe Onstein (Group leader, German Centre for Integrative Biodiversity Research, Germany) who will talk about 'The role of megafauna from macro- to microevolution during speciation of tropical palms', and Ole Seehausen (Professor, University of Bern and EAWAG, Switzerland) who will talk about 'Confronting paleo-ecology, population genomics and phylogenomics in the study of cichlid fish adaptive radiation'. The session will last 1.5 hours, with the first hour dedicated to the two talks and questions, and the last half-an-hour dedicated to a discussion session.

To attend the session live, please follow the links below :

webinar link : [<https://istaustria.zoom.us/j/63156080244?pwd=-Z3hnQlRmbnVxeFlSUjB0RFlreEZjQT09>] Passcode: 171060

discussion session link : [<https://istaustria.zoom.us/j/67025258005?pwd=-ZHZHSzV0eWxtMEhJa0daamMzUnhuQT09>] Meeting ID: 670 2525 8005 Passcode: 846031

Talks (but not the discussion session) are recorded and made available here [<https://www.youtube.com/channel/UCIEkDdE.5sDw70SQq78DIAA>].

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 and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

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

We hope to see many of you on Tuesday the 8th of February, 9 am CET.

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

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) [carole.smadja@umontpellier.fr] [tel:+33 (0)4 67 14 92 70] [carole.smadja@umontpellier.fr] [<https://isem-evolution.fr/> | <https://isem-evolution.fr/>] ISEM UMR 5554 cc065 Campus Triolet - Université de Montpellier - 34095 Montpellier Cedex 05

Carole Smadja <carole.smadja@umontpellier.fr>

Snapdragon Fieldwork Volunteers

Fieldwork volunteers wanted: Help us study plant evolution in the Spanish Pyrenees!

Nick Barton's group at the Institute of Science and Technology (IST) Austria (<https://bartongroup.pages.ist.ac.at/>) is looking for volunteers to assist with fieldwork on plant speciation in the Spanish Pyrenees this coming summer (late May - early August). This is a great opportunity for anyone looking to obtain experience in fieldwork related to evolutionary biology, speciation and plant ecology.

The project: We study evolutionary dynamics and speciation in snapdragons. The study, which has been running since 2009, involves fieldwork in natural hybrid zones between two subspecies with flower colour differences. The goal is to understand how different evolutionary forces like natural selection have shaped this diversity.

The fieldwork: We are seeking volunteers to assist with the fieldwork, which involves working in teams to map locations of individual plants (GPS) (the plants are primarily found on the roadsides), tag and sample them for leaves and flowers, measure traits, and process material for later DNA extraction. There may also be opportunities to be involved in other projects focusing on pollinator behaviour and plant-insect interactions. The work is outdoors as well as indoors - about one-third of the of time will be spent indoors curating leaf samples and organizing and preparing sampling equipment. The work is highly team orientated, typically in groups of 2-3 in the field and larger groups processing samples back at the research station. Since we aim to sample all living individuals in the hybrid zone during the flowering season, the daily workload can vary significantly. At peak season, we are often very busy and our daily routines change accordingly.

The location: The field site is near Planoles in a beautiful part of the Pyrenees in North Eastern Spain (Catalonia). We stay in comfortable apartments overlooking a picturesque valley, with close access to hiking trails and small villages.

The ideal applicant: is an enthusiastic, hardworking biology student with strong interest in working outdoors. You must be meticulous with recording data and also be comfortable working as part of a team. Experience with

field-based projects and plants is helpful but not essential. Climbing experience is useful as a small amount work is conducted on ropes. We are looking for volunteers between the 29th May and the 1st of August. We ask people to commit to stay for 3 weeks. Applicants must be located in Europe or the UK.

What we cover: All food, lodgings, Covid testing and travel within Europe/UK are covered.

How to apply? By the closing date of March 20th please send (i) your CV, (ii) a short explanation about why you are interested, and (iii) your availability between the above dates to fieldvolunteer2022@gmail.com. Please send any questions to the same address.

For fieldwork photos and more information, please visit the Barton Group field work page: <https://bartongroup.pages.ist.ac.at/fieldwork-2022/> Sean STANKOWSKI <sean.stankowski@ist.ac.at>

SSE SmallGrantsProgram ForOutreach

The Society for the Study of Evolution (SSE) is pleased to announce the call for proposals for the Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology.

This program provides up to \$1,000 USD in funding for local and regional outreach activities, including but not limited to public lectures, exhibits, student competitions, and professional development events for teachers. Proposals are due March 6, 2022.

Learn more about how to apply on the SSE website: <https://bit.ly/SSE-Outreach-Grants> –

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

SystematicsResearchFund CallNowOpen

A joint fund of the Linnean Society of London (<https://www.linnean.org/>) and the Systematics Association (<https://systass.org/>), the Linnæi $\frac{1}{2}$ Sys: Systematics Research Fund provides grants annually in the value of up to $\frac{1}{2}$ 1,500 for small-scale research and education projects in the field of taxonomy and systematics on any organism group from microscopic to macroscopic, past and present.

It is eligible to request funding towards fieldwork expenditure, laboratory consumables, purchase of scientific equipment, time on analytical equipment and services for preparation of specimens, and cover of sequencing costs. It is possible to request funding towards publication of books, monographs and field guides.

Projects involving education, training courses or citizen science activities are eligible if they focus on taxonomy and systematics. Applications for education activities or training courses must include the target audience/s, approximate number of participants and anticipated learning outputs. Citizen science applications must describe how the project team will be working together and/or co-design with the public, as well as listing the desired outcomes.

An applicant must be a current member of the Systematics Association or Linnean Society of London. More information on eligibility guidelines provided on the application form: <https://systass.org/4112-2/> Questions concerning the Linnæi $\frac{1}{2}$ Sys awards can be sent to LinneSys@systass.org

Deadline: 14 March 2022

Many thanks

Anne

Grants and Awards Officer

Systematics Association

Anne Jungblut <a.jungblut@nhm.ac.uk>

Trinidad Research Internships

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 March 2022 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

Undergraduate Diversity at Evolution Program

Undergraduate Diversity at Evolution Program

The Undergraduate Diversity at Evolution (UDE) program sends undergraduate students to the annual Evolution meeting <<https://www.evolutionmeetings.org/>>, where they will present a poster; receive mentoring from graduate students, postdocs, and faculty; and participate in a career-oriented 'Undergraduate Futures in Evolutionary Biology' panel and discussion. The in-person portion of this year's Evolution meeting will be held June 24-28 in Cleveland, Ohio, USA: <https://www.evolutionmeetings.org/> The UDE program is funded by the Society for the Study of Evolution and the BEACON Center for Evolution in Action. Applications are due Sunday, March 27. Learn more and apply here: <https://www.evolutionsociety.org/content/education/undergraduate-diversity-at-evolution.html> *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org SSE Communications <communications@evolutionsociety.org>

Webinar Series Population Genetics Vienna

Dear colleagues,

The Vienna Graduate School of Population Genetics

runs an internationally recognized seminar series featuring weekly talks by leading experts in population genetics. We invite interested listeners to join our webinars during the upcoming Summer term (Tuesdays at 17:00 CET/CEST).

Sign up here to receive webinar announcements and zoom links: <https://forms.gle/89roNpvVJdKH8som9>
Upcoming webinars:

01.03. Peter Michael Roth (Vetmeduni Vienna, AT): tba

08.03. Guillaume Achaz (Muséum national d'Histoire naturelle, FR): What process(es) cause(s) genetic diversity?

15.03. Ed Buckler (Cornell Univ., US): Tackling maize's contributions to climate change by learning from all plant genomic diversity.

22.03. Michael Nachman (Univ. of California, Berkeley, US): The genomic basis of environmental adaptation in house mice.

29.03. Filip Wierzbicki (Vetmeduni Vienna, AT): Evolution of piRNA clusters and their role in the silencing of transposable elements.

19.04. Alberto Civetta (Univ. of Winnipeg, CA): The evolution of reproductive genes, selection and reproductive isolation in *Drosophila*.

26.04. Sara Mathieson (Haverford College, US): Automatic evolutionary inference using Generative Adversarial Networks.

03.05. Joshua L. Payne (ETH Zurich, CH): Mutation bias and adaptive evolution.

17.05. Jesse Lasky (Penn State Univ., US): The genetics of local adaptation: spatial statistics and crop applications.

24.05. Carina Farah Mugal (Uppsala Univ., SE): Diffusion models in molecular evolution - theory and applications.

31.05. Arvid Ågren (Uppsala Univ., SE): The gene's-eye view of evolution.

07.06. Hannes Svoldal (Univ. of Antwerp, BE): The mysterious role(s) of large chromosomal inversions in a cichlid fish adaptive radiation.

14.06. Tamar Friedlander (Hebrew Univ. of Jerusalem, IL): tba

21.06. Rahul Pisupati (Gregor Mendel Inst. of Molecular Plant Biology, AT): Genetic basis for Epimutation rate variation within natural lines of *Arabidopsis thaliana*.

28.06. Carol Eunmi Lee (Univ. of Wisconsin, US & Univ. de Montpellier, FR): Rapid genome-wide parallel evolutionary responses to environmental change.

All webinars organised by the Vienna Graduate School of Population Genetics are available on our website <https://www.popgen-vienna.at/news/-seminars/> Most talks are recorded and can be found on youtube: <https://www.youtube.com/channel/UCAdGx2zyQNYVti9Cr1muhUg> – Dr. Julia Hosp

Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at <https://twitter.com/-PopGenViennaPhD> c/o Institut für Mathematik, Universität Wien & Institut für Populationsgenetik, Veterinärmedizinische Universität Wien

Skype: julia.hosp T +43 1 25077 4302 (currently unavailable)

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

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AcademiaSinica Taiwan MarineEvoDevo

Post-doctoral position on Marine Eco-Evo-Devo with Prof. Vincent Laudet at Yilan Marine Research Station The Institute of Cellular and Organismic Biology (ICOB; <http://icob.sinica.edu.tw>) is one of the research institutes of Academia Sinica in Taiwan. Researchers at ICOB investigate the basic mechanisms underlying cellular functions and cell-cell interactions that coordinate the growth and development of an organism and its adaptation to an ever-changing environment. Current research at ICOB comprises four focus areas: (1) Cellular dysfunction, (2) Eco-Evo-Devo, (3) Neuroscience, and (4) Stem cell and regenerative biology.

Prof. Vincent Laudet Marine Eco-Evo-Devo group uses coral reef fishes, and in particular anemonefish, to better understand the role of hormones in life history transition, and specifically metamorphosis. Prof. Vincent Laudet's lab is jointly supported by Academia Sinica

and Okinawa Institute of Science and Technology (OIST) in Japan (<https://groups.oist.jp/meedu>).

Position summary: We seek for a highly motivated post-doctoral fellow to join the Marine Eco-Evo-Devo laboratory of Prof. Vincent Laudet at Yilan Marine Research Station in Taiwan. The post-doc will participate to a collaborative project between 4 research teams at ICOB that aim to study metamorphosis of 5 marine organisms that occupy key phylogenetic positions and exhibit different life history strategies: a teleost fish, a cephalochordate, a hemichordate, an echinoderm, and an annelid worm. Transcriptomic profiling of key organs and hormone analysis of several developmental stages of all 5 species will be investigated and compared to each other. The post-doc will be responsible for the fish part, using clownfish as a model system. She/He will determine if similar transformations of organs occur in terms of cellular processes, with a focus on the intestine (key organ facing changes during metamorphosis). By examining transcriptomic regulation during metamorphosis at both organismic and single-cell level, she/he will search for shared regulatory mechanisms among these distantly related animal models. Lastly, she/he will perform functional analysis (such as pharma-

ecological treatment, CRISPR/cas9???) to test whether these shared regulatory mechanisms are essential for metamorphosis. This position will imply interactions with dynamic international research groups that aim to published in high impact journals. Working Location: Marine Research Station ??? ICOB - 23-10, Dah-Uen Rd, Jiau Shi, YLan 262 Taiwan

Qualifications: (Required) 1. PhD in Developmental Biology, Cellular Biology or Evolutionary Biology (or related topics). 2. Knowledge of basic techniques in developmental biology techniques and molecular biology. 3. Previous experience working with experimental model organisms. 4. Proficiency in oral and written English. 5. Ability to collaborate, share results and communicate with scientists from other fields.

(Preferred) 1. Experience working with fish model organisms. 2. Experience working with transcriptomic data. 3. Good knowledge in endocrinology.

Starting Date: Spring 2022

Salary: Salarystart fromNT58,858.

How to Apply: Apply by emailing your Submission Documents to: vincent.laudet [at] oist.jp (Please replace [at] with @ before using this email address)

Submission Documents:

Cover letter summarising research interests, professional experience, and career goals. Curriculum vitae. Name and contact information of 3 referees, one of which should be a previous employer.

Pr. Vincent Laudet ?????? ?????? Marine Eco-Evo-Devo Unit Okinawa Institute of Science and Technology (OIST) 1919-1 Tancha, Onna-son,

Okinawa, 904-0495 Japan

Joint Distinguished Research Fellow Marine Research Station Institute of Cellular and Organismic Biology (ICOB) Academia Sinica 23-10, Dah-Uen Rd, Jiau Shi, I-Lan 262 Ta??wan

Tel: +81-(0)98-982-3512 Mobile (Japan):+81-(0)80-9852-0005 Mobile (France): +33-(0)6-16-41-73-34 E-mail: vincent.laudet@oist.jp <https://groups.oist.jp/~meedu> <http://icob.sinica.edu.tw/lab.php?idQ> Vincent Laudet <VINCENT.LAUDET@OIST.JP>

ArizonaGenomicsInst RiceGenomeEvolution

The Arizona Genomics Institute (<https://www.genome.arizona.edu/>) is seeking a highly motivated candidate for an NSF-BBSRC funded, full- or part-time Postdoctoral Research Associate I position.

The successful candidate will be part of a multi-institutional team of researchers aiming at establishing a pan-genome study of (initially) the cultivated Asian rice (*Oryza sativa*). The project of this opening revolves around identifying of repeated sequences, transposable elements, and non-coding RNAs in fully assembled rice genomes and subsequently conducting genome biology and evolutionary analyses. Ultimately, the findings will be tied to the other main research themes of the pan-genome project (e.g. protein-coding genes, comparative genomics). The position is available immediately, applications will be reviewed until the position is filled.

MINIMUM QUALIFICATION: PhD in biology, genetics, informatics, bioinformatics, or related fields upon hire.

DUTIES AND RESPONSIBILITIES:

Lead an independent research project, though still in close collaboration with the PI and collaborating groups.

Develop autonomously supplementary research lines and hypotheses, as well as methods of data analysis and interpretation.

Supervise and train younger researchers and contribute to an overall productive scientific environment.

Maintain detailed records and disseminate research findings in meetings and as manuscripts in scientific journals.

Additional duties may be assigned.

KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of plant biology and plant genomics; Computational proficiency (e.g., R, Python, or other languages); Excellent written and oral communication skills.

PREFERRED QUALIFICATIONS:

Thorough understanding of DNA sequencing technologies, genome assembly, and annotation.

Previous experience in DNA sequence evolutionary analyses.

Previous experience in transposable elements and non-coding RNA biology.

Familiarity with high-performance computing clusters and cloud computing.

Previous track record of generating reproducible and sharable data.

For additional information, please contact Dario Copetti at dcopetti@email.arizona.edu.

Applications should include a CV and a cover letter and be submitted through this link: <https://arizona.csod.com/ux/ats/careersite/4/home/-requisition/7554?c=arizona> Dario Copetti, PhD Associate Director Arizona Genomics Institute BIO5 - Keating Bldg. - Rm. 229 The University of Arizona www.genome.arizona.edu "Copetti, Dario - (dcopetti)" <dcopetti@cals.arizona.edu>

BielefeldU EvolutionaryGenetics

A 12-months grant-writing fellowship opportunity in the field of evolutionary genetics is available at Bielefeld University for Early career Postdocs (<5yrs since PhD, PhD thesis needs to be submitted)

The young researchers fund of Bielefeld University (Germany) supports the preparation of grant applications with an up to 12-months fellowship. Possible grant schemes may include German (e.g. DFG, Heisenberg,...), EU or International grants that will be submitted with Bielefeld University as the host institution.

Deadline for this 12 month fellowship is mid-March and earliest start date is 1st of July, but interested candidates should contact me (toni.gossmann@uni-bielefeld.de) as soon as possible. Please send a motivation letter (approx one A4) that includes your research interests and potential grant scheme(s) that you would like to apply for along with your CV. This scheme is open to any nationality.

Funding details of the grant preparative fellowship: In brief, this includes a generous stipend plus possible research and travel expenses to prepare the grant application. No other funding should be available to the applicant during the funding period.

"Career bridge Doctorate- Postdoc"

Funding (max 26 000 EUR)

In order to finance the costs of living, young academics

without employment/scholarships can apply for a post-doctoral scholarship (monthly amount 2,000 euro) for a period of up to 12 months. Additionally, a child benefit supplement of euro 250 per child will be paid. Additionally consumables (for exand travel money can be requested.

Career bridge Doctorate - Postdoc aims at supporting the application for third party funding of your corresponding existing position or group of junior scientists and therefore, in order to prepare your application for third-party funding, you can also apply for research aid and measures for the promotion of mobility alongside the scholarship.

Selection criteria

Candidates will be selected by the University based on following criteria:

- Scientific qualification of the applicant in relation to age of qualification, disciplinary culture and personal circumstances (amongst others consideration of parental leave, caregiver leave, handicaps, etc.)
- Previous publications
- Previous participation in scientific exchange (for example lectures, posters)
- Outstanding academic achievements; for example scholarships and awards in preceding academic career
- Final grade and length of doctorate studies
- Quality of the application and comprehensibility of the project description.
- Contribution of the applied measures in the support of scientific profiling and achievement of career goals of the applicant
- Feasibility of the described project. In addition, with measures b) and c), the expected chances of success of the applied measure in relation to the objective set
- Scientific independence of the applicant but also sufficient institutional integration of the applicant within the working group/faculty/institute.

Prof Toni Gossmann

Evolutionary Genetics (Animal Behaviour) Bielefeld University Morgenbreede 45 D-33615 Bielefeld Fon: +49/(0)521/106 2734 Fax: +49/(0)521/106 6426 Email:toni.gossmann@uni-bielefeld.de

Toni Gossmann <toni.gossmann@uni-bielefeld.de>

BielefeldU FurSealGenomics

4-year postdoc position: Genomics and epigenetics of fur seals

With Dr Joe Hoffman (Bielefeld University, Germany),

Prof. Toni Gossmann (Bielefeld University, Germany), Dr Jaume Forcada (British Antarctic Survey, UK) and Prof. Kees van Oers (Netherlands Institute for Ecology).

An outstanding opportunity is available for a post-doctoral researcher to work on the evolutionary and ecological genomics and epigenetics of fur seals. The postdoc will be jointly supervised by Joe Hoffman (www.thehoffmanlab.com) and Toni Gossman ([tgossmann.github.io](https://github.com/tgossmann)), and will be based in the Department of Animal Behaviour at Bielefeld University. The postdoc is funded from now until the end of 2025 and is funded by the German Research Foundation (DFG) within 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).

The project: The postdoc will exploit and continue to build upon an exceptionally detailed long-term study of Antarctic fur seals (*Arctocephalus gazella*) at Bird Island, South Georgia. Here, local environmental warming and the loss of sea ice have progressively reduced the availability of Antarctic krill, the fur seal's staple diet. The aim of this project (sub-project A01 of the collaborative research centre) is to investigate how genetic and epigenetic mechanisms such as DNA methylation mediate short-term responses to environmental variation and facilitate long-term responses to environmental change. We will combine the latest cutting-edge 'omics' approaches, including high density SNP arrays and bisulphite sequencing, with detailed life-history data from ~800 individuals spanning a time series from the mid 1980s to the current day. This project will generate detailed insights into the (epi-)genetic basis of fitness variation in a wild vertebrate, with implications for understanding ecological and evolutionary dynamics as well as adaptation to climate change.

The applicant: We seek a bright and highly motivated postdoc with a strong PhD in a relevant topic (e.g. population or conservation genomics, ecological epigenetics, marine biology). A deep understanding as well as practical experience of working with high-throughput sequencing data (e.g. DNA methylation, RAD sequencing, SNP array or whole-genome resequencing data) is highly desirable, as is proficiency in writing custom scripts and working in Unix and R. Experience of quantifying inbreeding from molecular data and / or working with large-scale, long-term datasets from wild populations would be a bonus. The ideal candidate will also be able to work both independently and as part of a team. A high standard of spoken and written English is required and a proven track record of publishing in high quality international peer-reviewed journals would be advantageous.

The working environment: The postdoc will be based at the Department of Animal Behaviour at Bielefeld University (<https://www.uni-bielefeld.de/fakultaeten/biologie/forschung/arbeitsgruppen/behaviour>). The department is the oldest of its kind in Germany and currently hosts around six principal investigators, ten postdocs and twenty PhD students. It offers a stimulating international environment and an excellent research infrastructure including modern, well equipped molecular laboratories. The working language of the Department is English. The postdoc will also have the opportunity to interact closely with Dr. Jaume Forcada at the British Antarctic Survey in Cambridge and Prof. Kees van Oers at the Netherlands Institute for Ecology.

Bielefeld University is particularly committed to the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counselling and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees. Bielefeld is a city of 325,000 inhabitants with an attractive historical centre and easy access to the Teutoberger Wald for hiking and other outdoor pursuits. It offers a very high standard of living and is well connected to most major European cities.

The collaborative research centre: The postdoc will be embedded within a larger collaborative research centre (SFB) comprising 18 principle investigators, 8 postdocs and 16 PhD students based at Bielefeld University, the University of Münster and the University of Jena. The aim of the SFB is to produce a conceptual and empirical synthesis of individualisation across behaviour, ecology and evolution. The SFB will provide exceptional opportunities for interdisciplinary collaboration and academic networking, together with structured training, scientific

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ClemsonU FacialEvoDevo

The Powder lab in the Department of Biological Sciences at Clemson University is seeking a motivated postdoctoral fellow to work on the evolution of transcriptional

enhancers in facial development. This project aims to understand the functional and morphological impact of genetic variation in *cis*-regulation. Supported by an NSF-CAREER grant, this work will utilize ATAC-seq, RNA-seq, *in vivo* reporter assays, and CRISPR/cas9-mediated embryological manipulations to identify and assess how non-coding variation underlies facial development and evolution using cichlid fishes and zebrafish. Support is for at least two years with potential for renewal beginning as early as 1 April 2022, or at a mutually-agreed upon date.

Clemson University is located in the beautiful upstate area of South Carolina, with proximity to mountains, lakes, and larger urban areas. The university hosts excellent facilities to conduct the advertised research. We have access to AALAC-accredited animal facilities, the Clemson Light Imaging Facility, and the Clemson University Genomics and Bioinformatics Facility, all of which offer excellent training to assist planned research. The PI is committed to providing mentorship that facilitates diverse career options going forward.

Qualifications:

Applicants should have a PhD in evolution, genetics, development, bioinformatics, or a related field; peer-reviewed publications; and enthusiasm and drive to progress specified research.

Preference will be given to candidates with demonstrated experience with enhancer analysis, craniofacial development, and/or zebrafish embryology.

Strong candidates will also be creative and independent thinkers, have effective oral and written communication skills, and possess the ability to collaborate with and mentor a diversity of colleagues including graduate and undergraduate students.

Application Instructions:

Applicants must submit the following: (1) cover letter, (2) a curriculum vitae, (3) a description of relevant research experience and motivation/interest in the current position (1 page maximum), and (4) contact information (including telephone numbers and e-mail addresses) for three professional references.

All application materials must be submitted online at <https://apply.interfolio.com/102315>. Review of applications will begin 1 Mar 2022 and continue until the position is filled.

Questions regarding the search and position may be sent to Kara Powder (kpowder@clemson.edu).

*Kara E. Powder (she/her) |** Assistant Professor of Biological Sciences | Clemson University* *864-656-3196 | **karapowder.wordpress.com < [\[karapowder.wordpress.com/\]\(http://karapowder.wordpress.com/\) > | **055A LSF | 190 Collings St. | Clemson, SC 29634-0314 *](http://-</p>
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Kara Powder <kpowder@clemson.edu>

ColoradoStateU ClimateAdaptiveAlleles

Use your evolutionary genetics expertise for climate-adaptive agriculture!

The Crop Adaptation Lab at Colorado State University is recruiting three postdocs to identify and elucidate climate-adaptive alleles in a global food security crop. The postdocs will conduct collaborative hypothesis-driven research to identify natural variants that improve adaptation of sorghum to drought, striga and other climate-related stressors. Sorghum is a staple food and forage crop for smallholder farmers around the world and a model system for understanding plant genomic diversity (Morris et al. 2013 PNAS, Lasky et al. 2015 Science Advances, Bouchet et al. 2017 Genetics, Muleta et al. 2022 Science Advances). The knowledge we gain on climate-adaptive alleles will be used to accelerate climate adaptation of sorghum in Africa. Enjoy a competitive salary (5 years funding) and great quality of life on the front range of the Rocky Mountains.

1) Postdoctoral Fellow - Plant Genomics & Bioinformatics <https://jobs.colostate.edu/postings/97403> 2) Postdoctoral Fellow - Plant Stress Physiology & Genetics <https://jobs.colostate.edu/postings/97404> 3) Postdoctoral Fellow - Molecular Breeding & Germplasm Development <https://jobs.colostate.edu/postings/97341>

The first position would be a great fit for someone with expertise in evolutionary or ecological genomics, bioinformatics, molecular evolution, or similar fields. The second position would be a great fit for someone with expertise in evolutionary or ecological genetics, plant physiology, quantitative genetics, plant ecology, or similar fields. The third position requires applied plant breeding & genetics experience.

Feel free to email me if you have any questions about the positions or the lab!

Best, Geoff

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

“Morris,Geoffrey” <Geoff.Morris@colostate.edu>

ColoradoStateU ResScientist AirborneMicrobes

Hello,

Colorado State University’s One Health Institute seeks to recruit a highly motivated Research Scientist to work on an NSF Biology Integration Institute project, defining the composition, function, and evolution of microbes in the air-the ‘aerobiome’. This exciting project is based in the One Health Institute at Colorado State University and includes faculty from Departments of Agricultural Biology, Atmospheric Sciences, Biology, Biomedical Science, Chemical and Biological Engineering, Environmental and Radiological Health Sciences, Mechanical Engineering, Microbiology Immunology and Pathology, Sociology, Soil and Crop Sciences at CSU, and faculty at other regional and international locations. Collaborations in research and education among faculty and staff at CSU and elsewhere will be facilitated by project management provided by the successful candidate. We seek an experienced post-graduate candidate with both research competency and interest in developing skills in project management, including assisting with technical and reporting aspects of this complex program.

<https://jobs.colostate.edu/postings/99181> Thank you,

Jessica Hunter Business Operations & Research Administration Officer One Health Institute Office of the Vice President for Research Colorado State University (970) 491-8701

Jessica.hunter@colostate.edu

“Hunter,Jessica” <Jessica.Hunter@colostate.edu>

CRG Barcelona ModelingSequenceEvolution

Postdoc position at the Centre for Genomic Regulation (CRG), Barcelona, Spain

The Evolutionary Processes Modeling group at the Centre for Genomic Regulation invites applications for a postdoc position to study genetic variation and selection

in human genomes using computational data analysis, population genetics and statistical methods.

<https://recruitment.crg.eu/content/jobs/position/-postdoctoral-researcher-group-evolutionary-processes-modeling%E2%80%99> Deadline: 15 March 2022.

The Institute

The Centre for Genomic Regulation (CRG) is an international research institute of excellence, based in Barcelona, Spain, with more than 400 scientists from 44 countries. The CRG is composed of an interdisciplinary, motivated and creative scientific team which is supported both by a flexible and efficient administration and by high-end and innovative technologies.

In November 2013, the Centre for Genomic Regulation (CRG) received the ‘HR Excellence in Research’ Award from the European Commission. This is in recognition of the Institute’s commitment to developing an HR Strategy for Researchers, designed to bring the practices and procedures in line with the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Charter and Code).

The Role

We are looking for a postdoctoral researcher to join the “Evolutionary Processes Modeling” group. We use computational analysis of sequencing data together with population genetics predictions and statistical modeling to answer questions about mutational processes and selective pressures in cancer cells and in the human population. The ideal candidate should be highly motivated and eager to work on evolutionary and biological problems through the use and development of computational and statistical approaches.

About the Group

Cancer is a genetic disease, subject to population genetics forces like mutation, selection and stochasticity. Our group is particularly interested in how the evolution and survival of cancer cell populations relies on mutation influx as well as in selection inference from observed mutation data. To this end, we develop mathematical and computational approaches to estimate mutation rates and selection. Coding sequences of cancer tumors not only exhibit positively selected mutations that drive cancer (www.nature.com/articles/s41588-019-0572-y), but there also can exist a small fraction of genes that the tumor cannot afford to lose (www.nature.com/articles/ng.3987). In addition to genes, cancer driver loci can occur in the non-coding part of the genome (www.nature.com/articles/s41467-017-00100-x). Estimates of the strength of selection in cancer allow for a prioritization of genes and non-coding regions by their

disease relevance, with the ultimate goal of promoting therapeutic advances.

We are also interested in mutation rates and selection inference in the context of human genetic variation, including polymorphisms (<http://www.nature.com/articles/ng.3831>; academic.oup.com/mbe/article-abstract/36/8/1701/5475505) and de novo variants (www.nature.com/articles/s41467-020-17162-z). Here, a particular focus of the group lies on the description of purifying selection in humans and across species, accounting for mutational processes as well as the effects of genetic drift.

The Evolutionary Processes Modeling lab was established in October 2018. Further information can be found at <https://weghornlab.net/> and at www.crg.eu/en/programmes-groups/weghorn-lab. Whom would we like to hire?

Professional experience

- You are familiar with the principles of population genetics
- You have worked with DNA sequencing or other biological datasets

Education and training

- You hold a PhD degree in population genetics, physics, statistics, bioinformatics, or a related discipline

Languages

- You are fluent in English

Technical skills

- You have experience with computational data analysis
- You are familiar with modeling and statistical analysis

Competences

- You have highly developed organization skills
- You have good communication skills

The Offer - Working Conditions

- Contract duration: 1 year, to be extended up to a maximum of 5 years.
- Estimated annual gross salary: Salary is commensurate with qualifications and consistent with our pay scales.

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DanishTechU ComputationalPopulationGenetics

DTU Health Tech seeks qualified candidates for a post-doc position in computational population genetics with start as soon as possible.

Responsibilities In this position, you will develop algorithms and computational methods to deal with the analysis of large datasets from modern and ancient sources. More specifically, these algorithms will be aimed at analyzing a large number of ancient genomes using population genetics methods. Additional information should be obtained by contacting the potential main supervisor directly. The university is located in the greater Copenhagen area, which is acknowledged for its excellent standards of living, childcare and welfare system.

Current computational methods are often ill-equipped to deal with DNA extracted from ancient populations. This ancient DNA shows high levels of fragmentation and accumulated chemical damage. Furthermore, the number of individuals that can be sequenced is often limited. Fortunately, several problems pertaining to ancient DNA and ancient paleogenetics can be described in a maximum-likelihood framework and computer science techniques can help us to solve such numerical problems efficiently via machine learning, numerical algorithms and data structures. You will work in collaboration with other partners including the University of Copenhagen in order to develop the next generation of algorithms and software applied to DNA from fossils which can then be used to reconstruct population history and infer selection.

Qualifications You must hold a PhD degree (or equivalent) ideally in biological science with a focus on quantitative and mathematical aspects, or in computer science or mathematics.

The candidate we are looking for should ideally have the following qualifications:

- * Knowledge of a programming language like Python, Perl, C++ and/or Java
- * Ability to work in a UNIX environment, ideally in a high-performance computing environment
- * Thorough understanding of basic principles of population genetics
- * Knowledge of probabilities and statistics
- * Firm grasp of first-year university mathematics (differential calculus/linear algebra)
- * Knowledge

of coalescence theory or diffusion theory is an advantage * Expertise in next-generation sequencing data generation and processing is also a plus

The language of communication at DTU is English.

Apply at: <https://www.dtu.dk/english/about/-job-and-career/vacant-positions/job?id=e47dbc10-d238-4707-8a2a-baeff1c4ee9a> Gabriel Renaud <gabriel.reno@gmail.com>

DeakinU MarineEvolutionaryGenomics

Deakin University- Australia 2yr full time postdoc in Marine Ecological Genomics

An exciting new 2 yr fixed term postdoc opportunity in the EcoGenetics Lab at Deakin University's Warrnambool campus situated on the Great Ocean Road. The successful applicant will contribute to a collaborative research program funded by the Fisheries Research and Development Corporation, aimed at resolving patterns of biological stock structure among Southern Ocean crab fisheries. The postdoc will be responsible for liaising with industry and government partners, coordinating biological sample collections, conducting population genomic analyses, and disseminating research findings in the form of industry reports and peer-reviewed publications. The successful applicant will also contribute to the supervision of local HDR students working in the area of ecological genomics. Contact Adam Miller for further details : a.miller@deakin.edu.au

<https://careers.pageuppeople.com/949/cw/en/job/-519653/postdoctoral-research-fellow> Applications for this position close on 4 March 2022 at 11:55PM.

Thanks Brian!

Kind regards, Adam

Dr Adam Miller Centre for Integrative Ecology School of Life and Environmental Sciences Faculty of Science Engineering & Built Environment Deakin University

PO BOX 423, Warrnambool, VIC 3280 Office: +61 3 5563 3171; Mobile: +61 488 735 482
Email:a.miller@deakin.edu.au ECOGENETIC-SLAB:<https://www.ecogeneticslab.com> Adam Miller <a.miller@deakin.edu.au>

DukeU SpeciationConservationGenomics Madagascar

NSF-funded postdoc in speciation and conservation genomics

THE POSITION: The Yoder Lab at Duke University seeks to hire a postdoctoral research associate with skills in computational and speciation genomics. You will become a member of a research team that takes an integrative approach to speciation biology by combining computer science, field ecology, and genomic analysis. The project is a collaboration with Ziheng Yang (University College London; computational biology) and Marina Blanco (Duke Lemur Center; behavioral field ecology).

Anticipated start date is April 15, 2022 with a starting annual salary of \$53,760, along with scheduled annual increases. Funding is available for up to four years with renewal determined annually.

THE PROJECT: The project will focus on southeastern Madagascar where habitat fragmentation is threatening the survival of unique and irreplaceable biodiversity. In addition to generating important new knowledge about the processes that drive and delimit speciation, the project will include training and mentorship of both Malagasy and American students across a range of educational levels. The research focuses on mouse lemurs, which are the world's smallest primates and are unique to Madagascar and builds on current research that indicates that they have experienced episodic bursts of lineage diversification consistent with the climatic cycles of the Pleistocene. Key outcomes of the collaborative project will be the development of genomic data and computational tools for identifying the magnitude, direction, and rate of genetic exchange among lineages as well as a unique understanding of the roles of ecology, metabolism, and sensory communication play in inhibiting reproduction among the targeted species. The advertised postdoctoral position will be devoted to illuminating the role of genomic architecture in driving and maintaining species boundaries.

ORGANISMAL BIOLOGY & GENOMIC RESOURCES: Mouse lemurs are fascinating creatures of special biological interest given that they are genetically highly distinct though morphologically and ecologically similar. Notoriously, their taxonomy has exploded over

the past 25 years, with more than 20 species described since 1994. Mouse lemurs reach sexual maturity within the first year of life, and typically reproduce annually within a highly constrained seasonal timeframe that is often correlated with the duration of a hibernation season.

Female receptivity can be as short as several hours in a given year. During the austral winter, individuals of both sexes may enter periods of inactivity, ranging in duration from hours (daily torpor) to weeks (hibernation). The project will focus on a region of Madagascar where five distinct lineages, currently described as species, occur in patterns of both sympatry and allopatry. Divergence time analysis using a pedigree-derived measure of the de novo mutation rate (Campbell et al., 2021; Heredity) indicates that they achieve reproductive isolation extremely rapidly for a mammal which is a driving motivation for the research (Poelstra et al., 2022; bioRxiv). The project will benefit from a number of existing genomic resources including a reference genome for one of the target species (Larsen et al., 2017; BMC Genomics) as well as a newly released transcriptomic cell atlas (The Tabula Microcebus Consortium; bioRxiv). In-country outreach activities will build upon previous field-based genomics and associated workshops (Blanco et al., 2020; Conservation Genetics).

QUALIFICATIONS: Applicants should have a PhD in evolutionary genetics/genomics and strong computational skills. We seek an independent and collaborative scientist with an interest in team-based science and a generous approach to student training across a range of educational levels. Applicants should be familiar with the latest developments in genome assembly, population-level resequencing, and statistical analysis of population genomic data. Experience with single-cell genomics is a plus.

WORK ENVIRONMENT: Duke University is located in the Research Triangle region of North Carolina. It is a short drive from other top universities, including UNC - Chapel Hill and NC State University, and has rich programs in evolution, ecology, and genomics.

The region has diverse cultural resources and is conveniently situated between the Appalachian Mountains to the west and the Atlantic Ocean to the east. As we like to say: “turn right, and within 2.5 hours you can be hiking in the Smokies; turn left, and in 2.5 hours you can be lounging on some of the world’s most beautiful beaches.” The Yoder Lab welcomes individuals of all identities and backgrounds. We believe that the best science comes from an environment that includes a variety of lived experiences and in which all persons are encouraged to express their opinions freely in a culture

of mutual respect.

HOW TO APPLY: Please direct applications and/or questions to Anne Yoder

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Eawag ETHZurich Evolutionary Ecology

Postdoc Position in Evolutionary Ecology

A postdoc position is available in Christoph Vorburger’s lab at Eawag and ETH Zürich, Switzerland. Our research is concerned with the evolutionary ecology of host-parasite interactions in terrestrial and freshwater systems. We have a particular interest in the role of symbiont-conferred resistance in insect host-parasitoid coevolution. This position is available for at least two years and offers ample freedom to develop independent research within the scope of our group. The incoming candidate is expected to take over some responsibility in lab management and in the instruction of students, especially in molecular techniques.

The ideal candidate will have a keen interest in evolutionary ecology, strong quantitative and communication skills evidenced by scholarly publications, and excellent experimental and molecular laboratory skills. Experience in generating and analyzing next-generation sequencing data would be a plus. A PhD is required. The position is available immediately, starting date is flexible.

Eawag is a modern employer and offers an excellent working environment where staff can contribute their strengths, experience and ways of thinking. We promote cultural and gender equality and are committed to staff diversity and inclusion. The compatibility of career and family is of central importance to us. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/-aboutus/working/employment. Applications must be submitted by 31 March 2022 and should include a brief application letter explaining your motivation, research interests and relevant experience, a curriculum vitae, and the names and contact details of three academic references.

For further information, please contact Prof. Dr. Christoph Vorburger (christoph.vorburger@eawag.ch)

We look forward to receiving your application. Please send it through this webpage, any other way of applying will not be considered. A click on the link below will take you directly to the application form.

<https://apply.refline.ch/673277/0920/pub/1/-index.html> Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Integrative Biology, ETH Zürich, $\frac{1}{2}$ berlandstrasse 133 8600 Dübendorf Switzerland

Phone: +41 58 765 5196 e-mail: christoph.vorburger@eawag.ch or vorburgc@ethz.ch
group homepage: <http://homepages.eawag.ch/~vorburg/> ***

“Vorburger, Christoph” <Christoph.Vorburger@eawag.ch>

GlobeInstUCopenhagen AirborneEnvironmentalDNA

Postdoc in airborne environmental DNA at the Globe Institute, University of Copenhagen

We are looking for a highly motivated and dynamic postdoc for a 3-year position to work on airborne environmental DNA for terrestrial vertebrate monitoring. The position is to commence 1 May 2022 or as soon as possible thereafter.

Your job You will work on the newly funded Carlsberg Foundation Young Researcher Fellowship awarded to Associate Professor Kristine Bohmann to form a research team dedicated to establish the use of airborne environmental DNA for terrestrial vertebrate monitoring. In addition to state-of-the-art environmental DNA laboratory and computational workflows, the team will bridge disciplines through collaboration with a strong group of national and international collaborators to fine-tune the technique, expand it to natural environments, and apply it to biodiversity studies and standardised surveys. You will take an active part in the overall team’s work and will work with both national and international collaborators and team members. You will work especially close with the team members based in Copenhagen.

The project involves further development of the technology for use in natural settings, exploration of challenges, opportunities and limitations, and the use of metabarcoding of airborne environmental DNA for vertebrate

detection in applied contexts. This can include design and optimisation of air samplers, design of experiments in different natural ecosystems as well as in more controlled settings and comparison to existing monitoring methods. There will be flexibility to shape the postdoc fellowship within this framework.

Deadline: 27 February 2022

Further details: <https://employment.ku.dk/all-vacancies/?show=155728> Kristine Bohmann <kbohmann@sund.ku.dk>

Hilo Hawaii EntomologicalGenomics

A position is available for a postdoctoral research associate through Eastern Mennonite University to investigate control of tropical insect pests using genetic, genomic, and bioinformatic techniques, with the work location being the USDA-ARS Pacific Basin Agricultural Research Center located in Hilo, Hawaii.

The selected candidate will investigate the invasion of a new insect pest, the Queensland Longhorned Beetle, *Acalolepta aesthetica* (Coleoptera: Cerambycidae) on Hawaii Island.

The desired candidate will have a strong background in invasion biology, field research, bioinformatic analysis of genomic data, and computational biology through a command-line interface.

Candidates who have demonstrated strong written and oral communication skills, experience working independently and as part of a group, and strong interpersonal skills are encouraged to apply.

A PhD in biology, genetics, evolution, entomology, or related disciplines is required at the time of application.

The position will be hired through Eastern Mennonite University and the candidate selected will serve as a postdoctoral research associate with an annual salary of \$66,002 with health benefits. The position is guaranteed for one year with the possibility of extension contingent on performance and availability of funds. The position will be based in Hilo on the Big Island of Hawaii.

If interested, please submit a cover letter, CV, and the contact information of three references to: Dr. Sheina Sim, sheina[dot]sim[at]usda[dot]gov.

While the candidate will not be employed in the federal service, it is relevant to note that the US Department of Agriculture, Agricultural Research Service is an equal

opportunity/affirmative action employer and all agency services are available without discrimination.

Eastern Mennonite University is an equal opportunity employer, committed to enhancing diversity across the institution. Eastern Mennonite University does not discriminate on the basis of race, color, national or ethnic origin, sex, disability, age, sexual orientation, or gender identity. EMU conducts criminal background investigations as part of the hiring process.

“Sim, Sheina - ARS” <sheina.sim@usda.gov>

Hungary

Invasive Mosquito Evolutionary Ecology

“Investigation of the ecological factors that determine the spread of invasive mosquito species in Hungary, and the development of prediction models”

Climate change combined with a significant increase in international trade and tourism constitute the main causes behind the emergence of invasive species in Europe, which raise several ecological, epidemiological and economic problems. To understand the biological basis of this threat, we need to uncover the spatial and temporal patterns in association with the introduction and spread of invasive species, and to identify the underlying ecological factors. The fulfilment of these tasks requires the continuous monitoring of invasive species as well as their role in ecological interactions, for which many European countries have organised surveillance programs. The Hungarian program run by the Centre for Ecological Research (CER, <https://ecolres.hu/en>) since 2019 targets three invasive species currently present in the country, and consists of a survey based on citizen science that is combined with subsequent field sampling and laboratory screens for parasites (<http://mosquitosurveillance.hu>). Based on the accumulated data, we are able to generate reliable and distribution maps in real time, and now an important part of our mission is to identify the environmental factors determining the spread of the focal species, for which we hope to attract a post-doc providing theoretical/statistical inputs. We expect the young researcher to help us effectively obtain and investigate as many predictor variables as possible, create an ecological profile for each invasive species, and derive reliable estimates for future distribution dynamics. The new colleague would be in charge of collecting spatially and temporally structured data regarding the potential environmental predictors (e. g. climate, urbanization,

demography, road network, habitat type, mosquito control programs, etc.), assigning these data to the available species-distribution patterns by multivariate models (ideally including machine learning), and then using the resulting information to build prediction models.

The post-doc project is funded by the main Hungarian funding body (National Research, Development and Innovation Office). The period of employment is one year, but the position could potentially be extended by an extra year in case of success. Given the covid situation and the theoretical aspects of the project, we offer high flexibility with regard to the working routine and allow remote contribution (while we also welcome group members who can physically join the research team at CER). The allowance will be agreed upon with the relevant union, the starting date is flexible (but ideally as soon as possible).

As a formal qualification, the candidate must hold a PhD degree (or equivalent). Furthermore, we are looking for candidates with the following qualifications: - Background in ecology or in evolution with considerable expertise in statistics; - Experience in data mining and handling big data; - Experience in performing sophisticated statistical analyses (bioinformatics, machine learning, GIS, networks, phylogenetic models) and/or programming; - Experience in building prediction models; - Record of an excellent publication output.

Further information may be obtained from $\text{Li}_{\frac{1}{2}}\text{szli}_{\frac{1}{2}}$ Zsolt Garamszegi, garamszegi.laszlo@ecolres.hu.

Application procedure Applications must be submitted as one PDF file containing all materials to be given consideration as an e-mail package to nagy.adrienn@ecolres.hu. Please, attach all your materials in English in one file, which includes:

- Application (motivation letter) - CV - Academic Diplomas (MSc/PhD) - List of publications - List of potential references

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.

$\text{Li}_{\frac{1}{2}}\text{szli}_{\frac{1}{2}}$ Zsolt Garamszegi Director General Centre for Ecological Research 1113 Budapest, Karolina $\text{i}_{\frac{1}{2}}\text{t}$ 29, Hungary

$\text{Li}_{\frac{1}{2}}\text{szli}_{\frac{1}{2}}$ Zsolt Garamszegi
<garamszegi.laszlo@ecolres.hu>

IndianaU EvolutionaryGenomics

Postdoc: Evolutionary Genomics, Hahn Lab, Indiana University

An NSF-funded postdoctoral position is available in the lab of Matthew Hahn in the Department of Biology and Department of Computer Science at Indiana University, Bloomington. The work will examine models of trait evolution in a phylogenetic context, particularly for complex traits and on species trees with discordance. Our lab has developed some of the statistical and computational tools necessary to study traits in these contexts, and we are looking for someone to extend these methods and analyses in new ways. The postdoctoral candidate will also be encouraged to carry out independent work.

There is a wide variety of research going on in the lab in addition to the current project. For a summary of our work, please see: <https://hahnlab.sitehost.iu.edu/> The candidate must have a Ph.D. at time of appointment, preferably in phylogenetics, population genetics, statistical genetics, or computer science. The position will require the candidate to develop strong computational skills, but motivated scientists who wish to learn these skills are encouraged to apply. Salary commensurate with experience.

To apply, please submit (i) a letter of application, (ii) a full CV, (iii) a brief statement of research interests, and (iv) contact information for three references electronically to <https://indiana.peopleadmin.com/postings/-12475> Review of applications will start March 2, 2022 and will continue until the position is filled. Start date is late spring/negotiable. Inquiries about the position can be directed to Matthew Hahn (mwh@indiana.edu; 812-856-7001; 1001 E. 3rd St., Bloomington, IN 47405).

Indiana University has an active group in evolutionary genetics, and considerable computational resources. Bloomington is situated in scenic, hilly southern Indiana, near several parks and wilderness areas. The cultural environment provided by the University is exceptionally rich in art, music, and theater.

The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for

employment based on individual qualifications. Indiana University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

mwh@indiana.edu

IndianaU MicrobeMediatedAdaptation

Postdoctoral Fellow in microbial eco-evolutionary metagenomics, Indiana University.

The Lennon lab (<https://microbes.bio.indiana.edu/>) seeks a postdoc to work on an NSF-funded project that is part of the CNH2: Dynamics of Integrated Socio-Environmental Systems. Postdoc will work with shotgun metagenomic data coming from comparative field studies and manipulative experiments to test predictions about how microorganisms confer tolerance to environmental conditions (i.e., drought). A PhD is required by the start of appointment and qualified candidates will have experience with the annotation, assembly, and querying of shotgun metagenomic data to address ecological and evolutionary questions. The postdoc will have the opportunity to work collaboratively with biologists from Indiana University (Dr. Jennifer Lau) and Michigan State University (Dr. Sarah Evans) as well as investigators from social sciences to better understand the adoption and outcomes of management decisions on midwestern farms. The position is available for 12 months with expected renewal in subsequent years based on satisfactory performance. Anticipated start date is June 1, 2022 but negotiable. Salary will be commensurate with experience. Full benefits are included.

Indiana University has a large and interactive group at the interface of ecology, evolution, and microbiology. Bloomington is situated in scenic, hilly southern Indiana, near several parks and wilderness areas. The cultural environment provided by the University is exceptionally rich in art, music, and theatre.

A PhD is required by the start of appointment and qualified candidates will have experience with the annotation, assembly, and querying of shotgun metagenomic data to address ecological and evolutionary questions.

Inquires about the position can be directed to Jay Lennon (lennonj@indiana.edu).

To apply, please submit a letter of application, a C.V, statement of research interests, and the contact information for three references to <https://indiana.peopleadmin.com/postings/> < <https://indiana.peopleadmin.com/postings/XXXXXXXXX> >12222/ Best consideration for those applying prior to March 1, 2022. Start date flexible.

The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

Jay T. Lennon Professor Department of Biology Indiana University 1001 E. 3rd Street Bloomington, IN 47405 812-856-0962 lennonj@indiana.edu web: microbes.bio.indiana.edu wiki: lennon.bio.indiana.edu

lennonj@indiana.edu

Jena Germany 3 EvoDevo

The Friedrich Schiller University in Jena, German, is a traditional university with a strong research profile located in central Germany. It is a university that covers a wide range of disciplines. Research is focused on the areas Light-Life-Liberty. Our university collaborates closely with research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city. The Institute for Zoology and Evolutionary Research conducts modern zoological research with a comparative evolutionary perspective. The research topics range from entomology to functional vertebrate morphology, comparative developmental biology and animal physiology. The Hejnl Lab invites applications for 2 Postdoc positions and the Olsson Lab seeks 1 postdoc. The positions are to be filled with

3 Research assistants (PostDocs) in Evolutionary Developmental Biology of animals (f/m/d)

commencing on 01. April 2022.

The Hejnl Lab offer several projects that range from genomic analysis, morphology, to advanced comparative developmental biological approaches of non-model organisms. We combine advanced methods in molecular biology, genomics, electron- and light microscopy, and single cell-omics to study a range of marine and limnic non-model organisms. The projects will connect the genotype-level of organisation with the phenotype and

compare the results using the comparative evolutionary approach. The postdocs are expected to use existing technology and moving the implementation of modern techniques to non-model species forward. It is expected to solve current questions in animal evolutionary biology that relate to the evolution of cell types, organ systems, developmental pathways, physiological processes, and the interaction of the organism with the environment. A large list of interesting evolutionary modifications including developmental, physiological, and morphological traits in non-vertebrate species is available to be studied, and choices can be influenced by the preference of the postdoc. Active contribution in teaching and outreach, e.g., through the Phyletic Museum is expected. The mission of our groups is to understand how nature's fascinating phenotypic diversity has evolved and how genomic, cellular and developmental changes led to this diversity. The work in the Hejnl lab includes bioinformatic and embryological work. Since the Principal Investigator Andreas Hejnl is also director of the Phyletic Museum the lab actively contributes to its outreach activities. English is the working language in our lab. The Olsson Lab works on comparative developmental studies of the head in vertebrates. The focus has so far been on amphibians and fishes, but the postdoc. is of course free to work on other organisms. Main questions include the transition to biphasic and terrestrial life cycles and the evolution of novelties associated with these transitions. Techniques used includes fate mapping, gene down- and up-regulation and gene editing. Three-dimensional reconstruction of embryonic and larval anatomy using confocal microscopy, microCT and the synchrotron at DESY - in addition to histology - is central to our research, as is standard methods such as clearing-and-staining, Antibody-staining and in-situ hybridization. Depending on the seniority of the candidate, the degree of independency can be increased with the opportunity to attract own funding, design own courses and develop an own research path. The independency will be visualised by e.g. own webpage. Further, the opportunity for a habilitation will be provided.

Your responsibilities: You will conduct a research project related to comparative developmental biology. You will support the training and education of lab members and students. You will conduct teaching of one or more courses in zoology, evolutionary biology, molecular biology, or bioinformatics in the area of zoology and evolutionary biology (4 SWS) you will participate in collection trips to marine field stations. You participate in national and international meetings in your area of responsibility. You will write and publishing scientific papers in peer-reviewed journals. You will participate in teaching and outreach activities.

Your profile:

- * Successfully completed university studies in with a focus on zoology, developmental biology, evolutionary biology, genomics or a related area followed by a doctoral degree
- * Knowledge of evolutionary biology, developmental biology and molecular approaches
- * Experience in working with embryos or other developmental stages of animals are favourable.
- * Knowledge in bioinformatics and sequence analysis is an advantage.
- * English communication skills, both written and spoken

We offer: Remuneration based on the provisions of the Collective Agreement for the

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Krakow EvolutionaryEcol

Polish Academy of Sciences INC Krakow
Poland.EvolutionaryEcology

Postdoc position in the project “Integrating effects of anthropogenic and natural stressors across the organism’s life cycle” at the Polish Academy of Sciences INC in Krakow, Poland in collaboration with KU Leuven, Belgium.

The aim of the project is to understand how environmental stressors: native and invasive alien predators, increased temperature and seasonal time constraints influence key life history traits in aquatic invertebrates (common bluetail damselfly) through changes in physiology and behaviour.

Requirements: - PhD in biology or ecology (PhD defence not earlier than 7 years before the year of employment in the project; this period does not include breaks related to maternity leave) - Strong motivation for project work - Experience in field and laboratory work on aquatic invertebrates - Background in laboratory analysis of biochemical parameters - Publication record in leading ecological journals (at least five articles published within last five years) - Advanced skills in statistics in R environment - Fluency in English, written and spoken -

Additional attribute: experience in and enthusiasm for working in international team; valid driving license.

Responsibilities and job description: - Preparing field equipment and laboratory installations for experiments - Damselfly, fish and crayfish field sampling for experiments - Rearing experiment in climate chambers - Measurements of life history, behavioural (INC PAS in Krakow, Poland) and physiological traits (Univ. in Leuven, Belgium) - Involvement in work during irregular working hours (as field work and lab experiment require) - Attendance in national and international conferences/workshops - Participation in supervising MSc students - Running statistical analyses and writing manuscripts of scientific publications.

Required documents (combined in one PDF file): - Cover letter - Scientific curriculum vitae (including a list of publications) - Scan of Doctorate diploma - Contact details of two academics who can provide a reference.

I have funding from the National Science Centre, Poland (grant no. 2019/33/B/NZ8/00521) Contract of employment: full time for up to 11 months Starting date of employment: 1 May, 2022 Application due date: 15 March, 2022 Salary: monthly gross salary ca. 8 000 PLN (average wage in Poland: +/- 5 700 PLN gross) Principal investigator: Dr hab. inÂż. Szymon Sniegula, http://www.iop.krakow.pl/-pracownicy,102,szymon_sniegula.html The posting is here https://www.iop.krakow.pl/files/339/-call_post_doc_eng_2022_final.pdf To apply, please send combined in one PDF file documents to szymon.sniegula@gmail.com with 'postdoc 2022' in the subject heading.

Applications will be reviewed starting March 16, 2022, and will be accepted until the position is filled.

Please contact Szymon Sniegula (szymon.sniegula@gmail.com) if you have any questions about the position.

Szymon Sniegula <szymon.sniegula@gmail.com>

LeibnizInstBiodiversity Metabarcoding

Job advertisement

Postdoctoral position (f/m/d)

Metabarcoding and statistical analysis

The Leibniz Institute for the Analysis of Biodiversity Change (LIB), which was created through the merger of the Zoological Research Museum Alexander Koenig (ZFMK), Bonn and the Center for Natural History (CeNak) at the University of Hamburg, is an internationally operating research institute. As a research museum of the Leibniz Association, the LIB contributes to taxonomic and molecular biodiversity research and the conservation of global biodiversity, documents and analyzes evolutionary and ecological biodiversity change and participates in public communication about biodiversity change and its possible causes.

The Conservation Ecology Section of the Center for Biodiversity Monitoring at the Museum Koenig, Leibniz Institute for the Analysis of Biodiversity Change (LIB), is offering a full-time postdoc position for up-scaled DNA metabarcoding and data analysis. The position is part of the interdisciplinary research project “Diversity of Insects in Nature protected Areas” (DINA), which is funded by the BMBF since 2019 until April 2023.

Recent developments in the field of metabarcoding have enabled large-scale applications in biodiversity monitoring and conservation. The DINA work package biodiversity monitoring via metabarcoding of Malaise trap samples aims at assessing the entire species spectrum of flying insects in protected areas that are subject to fragmentation, land use and ecotoxicological exposure.

We are seeking an enthusiastic and productive candidate with demonstrated experiences in up-scaled metabarcoding and biodiversity assessments, as well as in multivariate analysis of complex data sets.

Assessment Criteria:

The ranking of eligible applicants will be based primarily on research expertise and the potential to contribute to the success of the overall project. The candidate is expected to integrate into a interdisciplinary consortium and attend regular project meetings.

Required qualifications:

PhD in biology, ecology, biodiversity research or a closely related field
Experience in processing of high-throughput sequencing data

Experience in metabarcoding lab work, data analysis and visualization
Excellent knowledge of the software R, including the analysis of large data sets
Solid knowledge of insect functional and community ecology

Experience working with geographic information systems is an asset
Ability to work independently as well as to integrate in a team

Excellent communication skills in German and English

As the project tackles highly relevant questions around potential drivers of insect decline in Germany, the position offers the successful candidate a unique possibility to sharpen her/ his scientific profile by high-impact publications.

The LIB offers a highly motivating working environment at the Museum Koenig in Bonn. The LIB advocates gender equality is certified according to the audit “Beruf und Family” audit, so women are strongly encouraged to apply. Equally qualified severely disabled applicants will be given preference. The salary corresponds to a public service position in Germany (TV-L E13), with a classification depending on the candidate’s work experience. The contract will start as soon as possible and is limited by the project term. The application deadline for this position is February 27, 2022. Please submit your application (letter of motivation, CV, publication record, names of three potential referees) digitally via our applicant portal: <https://leibniz-lib.de/karriere>. In case of questions concerning the position, you may contact Dr. Livia Schäffler (e-mail: l.schaeffler@leibniz-lib.de). For more information about our institution, please visit: <http://www.leibniz-lib.de> Cheers,

Livia

LIB -Leibniz Institute for the Analysis of Biodiversity Change

Dr. Livia Schäffler

Head of Section Conservation Ecology Centre for Biodiversity Monitoring

Museum Koenig

Adenauerallee 160 (mailingaddress127)

53113 Bonn

phone: +49 228 9122-352

email: l.schaeffler@leibniz-lib.de

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niz-lib.de

Schiffler Livia <L.Schaeffler@leibniz-lib.de>
 Schiffler Livia <L.Schaeffler@leibniz-lib.de>

Louisiana State University Plant Population Genetics

Postdoctoral position in population genetics, functional genomics, and genome evolution Department of Plant Pathology and Crop Physiology Louisiana State University Agricultural Center Baton Rouge, Louisiana

Position Description: The Richards Lab at Louisiana State University is recruiting a postdoctoral research associate to understand the population structure, genetic diversity, genome evolution, and transcriptional responses to environmental stresses in *Phragmites australis* (Roseau cane) and the relationship of these factors to Roseau cane dieback. The postdoctoral research associate will be expected to lead and contribute to designing experiments, collecting field samples, preparing next-generation sequencing libraries, and conducting bioinformatics analyses. Responsibilities also include writing manuscripts, presenting results at meetings and conferences, and mentoring students. Prior experience with population genetic and/or functional genomics datasets is highly preferred. This is a full-time (40 hrs/week) position with available funding for two years. Continuation past the first year is contingent on a successful annual review.

Qualifications: PhD in genomics, genetics, biology, botany, plant pathology, or other related field. A successful candidate will have demonstrated experience in the design and execution of population genetic and/or functional genomics experiments. Preferred qualifications include experience working with large-scale transcriptomics datasets. Excellent oral and written communication skills and ability to collaborate with colleagues within and among departments are required. A valid Louisiana State driver's license and ability to drive is required at the time of appointment or soon thereafter.

Application Deadline: March 01, 2022 or until a suitable candidate is identified.

Application Procedure: Apply online at <https://lsu.wd1.myworkdayjobs.com/LSU> (or through Workday for internal applicants) by attaching a cover letter with resume, university transcripts, and contact information for 2-3 references. Paper, faxed, or e-mailed application materials will not be accepted.

Dr. Jonathan K. Richards Assistant Professor of Fungal

Biology Department of Plant Pathology and Crop Physiology Louisiana State University Agricultural Center

Please contact Dr. Jonathan Richards if you have any questions at jrichards@agcenter.lsu.edu

The LSU Agricultural Center is a statewide campus of the LSU System and provides equal opportunities in programs and employment. An Equal Opportunity/Affirmative Action Employer

“Richards, Jonathan” <JRichards@agcenter.lsu.edu>

Lund University Landscape Genomics

Attractive 2 year position as postdoctoral fellow in landscape genomics at Lund University

We have an opening for a postdoctoral researcher in landscape genomics within the project “Genetic monitoring of connectivity, diversity and adaptive potential”. This project addresses the effect of fragmentation of semi-natural grasslands on pollinator genetic diversity and gene flow using landscape-genomic methods and evolutionary approaches.

The post doc will work within the Evolutionary Ecology of Plant Insect Interactions group, and be part of the interdisciplinary BECC environment (Biodiversity and Ecosystem Services in a Changing Climate) at the Department of Biology, Lund University. For further information, please contact the main supervisor Anna Runemark (anna.runemark@biol.lu.se)

Please find more information and apply here: <https://lu.varbi.com/en/what:job/jobID:471660/-type:job/where:4/apply:1> Anna Runemark <anna.runemark@biol.lu.se>

Max Planck Institute Cologne Genomics

Location:

Max Planck Institute for Plant Breeding Research, Cologne, Germany

Institute:

LMU Munich, Faculty of Biology, Munich, Germany

Group: Prof. Korbinian Schneeberger

Starting date: April 2022 (to be negotiated)

Apply until: February 28th, 2022 (position remains open until filled)

Duration: 3 years

Postdoctoral position in Bioinformatics (m/f/d)

The Ludwig-Maximilians University Munich is one of the largest and most renowned universities in Germany.

Working environment:

The established group “Genome Plasticity and Computational Genetics” managed by Korbinian Schneeberger is focused on plant genomics, specifically on the development of novel computational and biotechnological methods for the analysis of genome sequences. The group is located at the Faculty of Biology at the LMU in Munich, with a part of the group working at the Max Planck Institute for Plant Breeding Research in Cologne, Germany. We are currently searching for a postdoc for our location at the MPI in Cologne.

Our group analyzes genomic changes on different levels. We compare the genomes between species, populations and artificial crosses. We do this using latest technologies (including third generation as well as single-cell genomic technology) to get insights into how and why genomes change over time. Current projects include genetic experiments and the establishment of computational methods for the analysis of multidimensional genome data to study the natural diversity of mutations and recombination.

We are a multi-disciplinary group including bioinformaticians, biologists and biotechnologists (schneebergerlab.org). Our approach to science is curiosity-driven, and is closely aligned to our interests in new genomic technologies. Scientific support comes from a wide range of facilities (genomics, microscopy, high performance compute clusters) and lab technicians. Salaries will be based on previous experience according to TV-L guidelines.

Project Description

We have recently developed a new method to assemble the individual haplotypes of tetraploid genomes based on the combination of long-read sequencing and the analysis of single pollen genomes (Sun et al, 2021, biorxiv). We applied this method for the reconstruction of the first fully haplotype-resolved assembly of a cultivated potato genome.

Following up on this work we now would like to make use of the individual haplotypes and develop genotyping methods for a simplified analysis of even more complex genomes. The method should then be applied to geno-

typing recombinant pollen genomes (which will allow us to analyze the inheritance on the individual haplotypes) as well as other potato cultivars. While applied in the context of plant genomics, such haplotype-type based genotyping would be applicable across many different species including even humans.

Qualifications

We are searching for highly motivated applicants with a PhD in bioinformatics or a similar field in computational biology. Applicants should be proficient in scripting e.g. Python and should have experiences in the analysis of next-generation sequencing data and in the use of a high-performance compute cluster. Good oral and writing skills in English are essential. We are particularly looking for open-minded, creative and critical minded candidates who like to work in an international team.

Disabled people with the appropriate qualifications will be considered preferably.

Have we raised your interest? Please submit your application to Finni Hi $\frac{1}{2}$ u $\frac{1}{2}$ ler (finni.haeussler@lmu.de). In case of questions, please directly email Korbinian Schneeberger (k.schneeberger@lmu.de).

Postdoctoral Researcher Division of Evolutionary Biology Faculty of Biology LMU Munich Grosshaderner Str. 2 82152 Planegg-Martinsried Germany

Sergio Tusso <situssog@gmail.com> Sergio Tusso <situssog@gmail.com>

NHGRI-NIH Bethesda BioinformaticsComparativeGenomics

Computational and Statistical Genomics Branch National Human Genome Research Institute National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Comparative Genomics

A postdoctoral training position is currently available in the Computational and Statistical Genomics Branch (CSGB) of the National Human Genome Research Institute (NHGRI). The position is in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models can be used to convey critical

insights into human disease research, in line with the NIH Intramural Research Program's renewed emphasis on developing new animal models for the study of basic biology.

With this translational context in mind, Dr. Baxevanis' group is currently leading international efforts to sequence two cnidarian species: *Hydractinia* and *Podocoryna*. The regenerative abilities of these colonial hydrozoans make them excellent models for the study of key questions related to pluripotency, allorecognition, and stem cell biology, work that will be significantly advanced by the availability of high-quality whole-genome sequencing data from these organisms. The successful applicant will have the opportunity to develop and apply bioinformatic approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families and biological pathways that have putative roles in disease causation.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in comparative genomics or evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as a 'Top 500' high-performance computing resource available through NIH's Center for Information Technology.

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential references to Dr. Baxevanis at andy@mail.nih.gov. Postdoctoral traineeships are not available to scientists who have more than five years of relevant research experience since the receipt of their most recent doctoral degree.

For more information, please visit <https://irp.nih.gov/pi/andy-baxevanis>. The NIH is dedicated to building a diverse community in its training and employment programs.

“Baxevanis, Andy (NIH/NHGRI) [E]”
<andy@mail.nih.gov>

NorthCarolinaStateU PlantEvolutionaryEcol

Postdoctoral position in Plant Evolutionary Ecology
Department of Plant and Microbial Biology
North Carolina State University

The Sheth plant evolutionary ecology lab < <https://seemasheth.weebly.com/> > in the Department of Plant and Microbial Biology < <http://pmb.cals.ncsu.edu/> > at North Carolina State University < <http://ncsu.edu/> > (Raleigh, NC) is currently seeking a highly motivated postdoctoral associate to participate in an NSF-funded study of eco-evolutionary responses to climate change across a species range. We combine field, greenhouse, and growth chamber experiments, demographic modeling, and quantitative genetics to examine constraints to adaptation to climate across species geographic ranges. We strive to foster an inclusive environment where people from all backgrounds are respected and we especially welcome applicants from groups that have historically been underrepresented or excluded.

The successful candidate will contribute to studies of eco-evolutionary responses to climate change in the scarlet monkeyflower, *Mimulus cardinalis*, a perennial herb that grows in riparian habitats in western North America. The postdoctoral scholar's primary responsibilities involve coordinating research among multiple institutions by establishing and monitoring field and greenhouse experiments, training and managing personnel, managing and analyzing data, and contributing to the dissemination of results through manuscripts and presentations. The position is based out of NCSU and requires travel to California and Oregon for several weeks each spring/summer and fall to establish and maintain field experiments. The postdoctoral scholar will also have opportunities to analyze existing datasets, develop additional research programs related to the overall objectives of the project, and gain experience mentoring undergraduate and graduate students. The postdoc will be co-mentored by Dr. Chris Muir < <https://cdmuir.netlify.app/> > at the University of Hawaii, and will interact with the research teams of Drs. Lluvia Flores-Renteria < <https://lluviafloresr.wixsite.com/lluviafloreslab> > at San Diego State University, Jay

Sexton < <https://sextonlab.ucmerced.edu/> > at UC Merced, and Jeff Diez < <https://diezlab.netlify.app/> > at the University of Oregon.

Candidates must have a Ph.D. in Ecology, Evolutionary Biology, Botany, or a related discipline, and experience conducting field experiments with plants. Candidates are also expected to have a background in statistical methods, a strong work ethic, and excellent problem-solving, interpersonal, communication, and time management skills. A clear track record of publications, independent research experience, and a commitment to mentoring undergraduates is also required. Experience with analyses of quantitative genetic and/or demographic data in R is strongly desired.

This position is for one year, with potential for renewal for up to two additional years. Start date is flexible, but ideally in Fall 2022 or Spring 2023.

TO APPLY: Please submit the following materials to <https://jobs.ncsu.edu/postings/156962>: 1) a cover letter describing your previous research experience and qualifications for this position, along with your current and future research interests (1-2 pages), 2) current CV, and 3) contact information for 3 references. Review of applications will begin on March 1 and continue until the position is filled. Feel free to email Dr. Sheth if you have any questions about this position.

Seema Sheth (she/her) Assistant Professor Department of Plant and Microbial Biology North Carolina State University Email: ssheth3@ncsu.edu seemasheth.weebly.com

Seema Sheth <ssheth3@ncsu.edu>

NorthCarolinaStateU ViralEvolution

Postdoc: Evolution and phylodynamics of super-generalist viruses

A postdoctoral research position is available in the Phylodynamics Research Group led by David Rasmussen in the Department of Entomology and Plant Pathology and the Bioinformatics Research Center at NC State University. The postdoc will participate in a NSF-funded project exploring how fitness tradeoffs limit viral host range as well as how generalist viruses evolve to resolve these tradeoffs. In particular, the postdoc will help connect theory to data by developing new phylodynamic methods for quantifying pathogen fitness between dif-

ferent host environments. These newly developed methods will then be applied to multi-host viral pathogens in order to empirically measure fitness differences and movement between alternative hosts.

While the intended project is largely computational, the postdoc may combine method development with experimental work on the super-generalist plant virus tomato spotted wilt virus, which our lab uses as a model system for studying viral adaptation to multiple hosts (see here). This may include assisting in field surveys of TSWV genomic diversity and quantifying the fitness of individual viral genotypes on a panel of crops and native plants. By combining the newly developed phylodynamic methods with empirical measures of viral fitness on different hosts, we will be able explore how fitness tradeoffs evolve over time and shape the host range of an extraordinary RNA virus.

The successful applicant can also build their mentoring skills by co-supervising an undergraduate led meta-analysis aimed at synthesizing current literature on how fitness tradeoffs shape viral host range more broadly in plant, animal and human viruses. Applicants interested in gaining teaching experience may also help develop educational materials for teaching genomic epidemiology and phylodynamics in a new series of international workshops.

Applicants must hold a PhD in biology or a related field. Candidates with strong programming and bioinformatics skills will be given the highest consideration. Previous molecular and virology lab experience are highly sought, but not essential. Most importantly, the candidate must possess strong problem-solving skills and a record of self-directed, innovative research.

Initial appointment is for one year, but position will be renewable for up to two years. Start date would ideally be Summer 2022.

Please apply using the link below and include a CV, a brief cover letter describing research interests, a writing sample (e.g. first author publication), and the contact info for two references. Submission of a code sample written by the applicant is also strongly encouraged. Application deadline: April 1st, 2022.

<https://jobs.ncsu.edu/postings/156720> David Rasmussen Assistant Professor Dept. of Entomology and Plant Pathology Bioinformatics Research Center North Carolina State University Ricks Hall 312 1 Lampe Dr, Raleigh, NC 27607

David Rasmussen <drasmus@ncsu.edu>

NortheasternU Boston CoralGenomics

The Vollmer lab at Northeastern University (Boston, MA) is looking for a postdoc to join our NSF-funded project associating genomic variants with coral disease resistance. Ideal candidates will have a strong background in computational genomics. The position is available immediately with an ideal start date before May 1, 2022.

A link the posted position and application portal is available here: https://northeastern.wd1.myworkdayjobs.com/en-US/careers/details/Postdoctoral-Research-Associate_R102482?q=postdoc If you are interested in the position, please reach out to me (Steve Vollmer) directly at s.vollmer@northeastern.edu, and apply via the online portal.

Steve Vollmer Associate Professor, Department of Marine and Environmental Sciences Northeastern University, 430 Nahant Road, Nahant, MA 01908 Research Associate, Smithsonian Tropical Research Institute

Steve Vollmer <steve.vollmer@gmail.com>

OregonStateU GenomicsEpigenomics

Reposting: Postdoctoral Scholar Position

Genomic and epigenomic monitoring of endangered whales and dolphins

The Marine Mammal Institute of Oregon State University invites applications for a full-time (1.00 FTE), 12-month, fixed-term Postdoctoral Scholar position. Reappointment is conditional on funding and at the discretion of the Principal Investigator. The successful candidate will contribute to ongoing projects investigating genomic diversity and population dynamics of endangered whales and dolphins. This will require application of bioinformatic pipelines and statistical analyses to next-generation sequencing for genomics and to a custom methylation array for epigenomics. The long-term

objective is to integrate genomic diversity, kinship and age structure into population dynamic models for Cook Inlet beluga whales and New Zealand endemic Māui dolphins.

The position is located at the Hatfield Marine Science Center in Newport, Oregon, where the Scholar will work with Scott Baker in the Cetacean Conservation and Genomic Laboratory, and remotely with collaborators Paul Wade (NOAA) and Rochelle Constantine (University of Auckland, New Zealand).

Required qualifications include a PhD in biological sciences (genetics, ecology or evolution), with an emphasis in genomics, bioinformatics, statistics or population modeling, and a demonstrated publication record. The PhD must have been awarded within the last five years. Preferred qualifications include experience with programming (Python and R) and management of large datasets typical of next-generation sequencing and methylation arrays. An appreciation of collaborative, interdisciplinary research and a commitment to diversity, equity and inclusion is expected.

The minimum stipend for a candidate with no prior postdoctoral experience is \$53,760/year with annual increments for experience following NIH guidelines.

Starting date is approximately March 15, 2022 (negotiable).

For the full announcement and instructions for application, see <http://gradschool.oregonstate.edu/postdocs/open-positions> For further information, contact Scott Baker by email, using the subject 'Whale genomic postdoc information' email: scott.baker@oregonstate.edu

From: C. Scott Baker Associate Director, Marine Mammal Institute Professor, Department of Fisheries, Wildlife and Conservation Sciences Hatfield Marine Science Center Oregon State University 2030 SE Marine Science Drive Newport OR 97365

Mobile 541-272-0560 email:
scott.baker@oregonstate.edu <http://mmi.oregonstate.edu/> Anjanette Baker
<theaga@theaga.org>

Poitiers France TickBacteriaSymbiosis

A two-year position as a postdoctoral researcher at the Ecology and Biology of Interactions laboratory of the

University of Poitiers (France) < <https://ebi.labo.univ-poitiers.fr/> >

24 months position, open from April 2022 or as soon as possible thereafter.

How does mutualism with microbes emerge? How this process favored the appearance and evolutionary radiation of animal lineages whose nutrition is highly specialized? Why are these mutualistic systems not evolutionary stable? Through an innovative experimental approach using tick cell lines, we are looking for a highly motivated and talented post-doc to work on these fundamental questions.

Context: Mutualism with microbes is one of the keys to the origins of complex life on Earth (Wernegreen, 2012; Bennett et al, 2015). In many cases, the host and its beneficial microbes merge into a single, coherent symbiotic entity so that these mutualistic relationships are considered stable associations over extremely long periods. Yet recent evidence of gains and losses of mutualistic symbionts suggests that the stability of beneficial mutualistic relationships is only apparent (Bennett et al, 2015; McCutcheon et al, 2019). However, the mechanisms favouring the extinction of ancestral, coevolved, symbionts and their ultimate replacement by foreign, less-coevolved, symbionts remain poorly understood. In this context, our objective is to identify the evolutionary mechanisms that drive extinction and reborn of mutualistic interactions using ticks (Ixodida, Acari) as ideal biological models to address this question. Ticks host nutritional symbionts that are essential for their growth and survival, but the origin of these symbionts varies considerably between host species and substitution of beneficial symbionts can occur (Gottlieb et al, 2015; Duron et al, 2018; Guizzo et al, 2017; Duron et al, 2017; Binetruy et al, 2020).

Members of our consortium have demonstrated that *Francisella* sp. (Gamma-proteobacteria: Thiotrichales: Francisellaceae) is an obligatory symbiont for ticks by providing them with B vitamins (Duron et al, 2018). Surprisingly, from a large screening, most tick species harbour a different intracellular symbiont, *Coxiella* sp. (Gamma-proteobacteria: Legionellales: Coxiellaceae), which is also able to synthesize B vitamins (Duron et al, 2017; Binetruy et al, 2020). Overall, these works show repeated replacements of *Coxiella* by *Francisella* across the tick phylogeny (Duron et al, 2017; Binetruy et al, 2020) but the factors favouring one nutritional mutualist, over another, are not yet understood.

Post-doc project: The position is associated with the ANR-funded collaborative project MICROM “Microbial competition in mutualistic interactions with ticks”. The MICROM consortium, led by Olivier Duron, in-

volves three teams (O. Duron MIVEGEC, Montpellier, F. Vavre LBBE, Lyon and D. Bouchon EBI, Poitiers) with excellent expertise in the field of endosymbiosis. MICROM aims at deciphering the competition between *Francisella* and *Coxiella* symbionts using different approaches from genomics, transcriptomics, in vivo and in vitro imaging. The recruited post-doc will participate in this innovative program with a particular focus on in vitro experiments assessing the competitive abilities of the two beneficial symbionts. The post-doc will be responsible for monitoring tick cell lines, performing infection and co-infection and characterising the cellular phenotypes. Methods include RT-qPCR, dual-RNAseq, FISH combined with electron microscopy.

Teams, lab and location: The post-doc will be part of the Ecology, Evolution & Symbiosis team of the EBI laboratory in Poitiers, which has a long experience in research on symbiosis. The post-doc will have access to the funding and infrastructures needed for this project, in a stimulating scientific environment. Regular exchanges and mobility are planned with the various project partners as well as with external collaborators such as the Tick Cell BioBank in Liverpool.

Remuneration will be between euro 2,663 and euro 3,789 gross per month depending on experience.

Relevant expertise: We are looking for an autonomous and highly motivated candidate with a genuine interest in symbiosis research with expertise in the following areas: - Cell culture - Molecular biology - Imaging approaches, cellular biology, histology. Experience in electron microscopy is a plus. - Interested in acquiring expertise in experimentation with arthropods: care, injection, dissection - Expertise in genomics and bioinformatics is a plus

Application: The application form should be submitted on the CNRS job portal by following this link: <https://bit.ly/3LKQBsk> Please send also your application: CV including publication list

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QueenMaryU London EvolutionSymbiosis

Evolution of symbiosis -Host immunity manipulation as an adaptation for symbiosis

A Postdoctoral Research Assistant position is available at Queen Mary University of London (QMUL) in Dr Lee Henry's group to investigating Host immunity manipulation as an adaptation for symbiosis. This is a BBSRC-NSF/BIO funded project that aims to understand how host immune systems are modified, or manipulated, to recognise and host beneficial microbes, while still resisting harmful pathogens. The project involves state-of-the-art techniques in genomics and molecular biology (e.g. RNAi, CRISPR), and experimentally manipulations of herbivorous insects (aphids) and their symbionts.

We have shown that hosting beneficial microbes results in a sharp decrease in the expression of key immune genes in aphids. In this project, the successful applicant will answer the questions: do symbionts manipulate host immune systems to establish in hosts, or have hosts evolved a modified immune response to facilitate symbiosis? and do host's trade-off in their ability to harbour beneficial symbionts and resist pathogens?

An ideal candidate should have a PhD (or be close to completion) in Evolutionary Biology, Genomics, Genetics or a related field. They should provide evidence of expertise in lab skills in molecular biology. Alternatively, if candidates are more data-analysis oriented, they should provide evidence of programming skills and should be proficient in transcriptome or genome analyses. A proven track record of published research is essential. Self-motivation, an ability to work as part of a team and an interest in new research questions will be fundamental to the position.

Queen Mary is one of the top research-led universities in the UK and was ranked 9th among the UK multi-faculty universities in the Research Excellence Framework (REF 2014). All postdoctoral researchers are part of the QMUL Doctoral College, which provides support with high-quality training and career development activities.

The post is full-time and available until 28th February 2025. The start date would be 1st May 2022 or as soon

as possible thereafter. The salary is in Grade 4, in the range of £33,824 - £34,733 per annum, inclusive of London allowance.

We offer access to a generous pension scheme, 30 days leave per annum (pro-rata for fixed-term), season ticket loan scheme and access to a comprehensive range of personal and professional development opportunities. In addition, we offer a range of work life balance and family friendly, inclusive employment policies, flexible working arrangements, and campus facilities including an on-site nursery at the Mile End campus.

For information on what we do, please visit our lab website: <https://www.henry-lab.co.uk/> Before applying, please contact Dr. Lee Henry (l.henry@qmul.ac.uk).

To apply, please go to the website below:

<https://www.qmul.ac.uk/jobs/vacancies/items/-6709.html> The closing date for applications is March 22nd, 2022. Interviews will be held shortly thereafter.

Lee Henry Senior Lecturer Queen Mary University of London School of Biological and Chemical sciences Mile End Rd London E1 4NS

<https://www.henry-lab.co.uk/> Lee Henry
<l.henry@qmul.ac.uk>

QueensU Canada MolecularEvolution

Postdoctoral researcher in molecular ecology/evolution
\$40K-\$70K/year (Canadian); Flexible Start Date

We are seeking a postdoctoral researcher with experience in molecular ecology/evolution, broadly defined. The successful candidate will join a diverse and inclusive group of researchers representing a wide variety of career stages and disciplines (natural sciences/engineering + social science + humanities + biomedical science). As a successful candidate, you will develop an independent research program with the option to gain undergraduate/graduate teaching experience and to lead or contribute to projects in one of the research foci summarized on our website: EcoEvoGeno.org

We encourage applications from candidates with expertise in ANY of the following (we do not expect candidates to have expertise in more than one of these): - Inferring natural selection and rates of molecular evolution from sequence data - Comparative genomics - Popula-

tion genetics/genomics - Applying bioinformatics tools to analyze Illumina and/or Nanopore sequencing data - Programming in R or Python - Data science / Data management - Quantitative biology - High-performance computing (e.g. SLURM, SGE) - Reproducible/Open Science - Biological Invasions - Ticks and tick-borne diseases - SARS-CoV-2/COVID-19

This position can include flexible hours and remote work due to COVID restrictions or other personal considerations. The position is based in the Colautti Lab at Queen's University with opportunities to interact with collaborators in other academic units at Queen's University (e.g. Biomedical-based departments, Kingston Health Sciences Centre) and at other universities across Canada and globally.

To maintain a diverse and inclusive group of researchers dedicated to improving representation in STEM research, we encourage applicants to include altmetrics (e.g. downloads, tweets, pull requests, media coverage) and other non-traditional evidence of research potential. This can include an (optional) statement on commitment to diversity, equity and inclusion, or other considerations.

Interested applications should include CV, referee contact information, and a cover letter outlining aligned research interests and relevant experience to: Robert - [dot]- Colautti@queensu.ca

Robert Colautti <robert.colautti@queensu.ca>

RockefellerU EvolutionaryGenomics

A postdoctoral researcher position is available in the Laboratory of Evolutionary Genetics and Genomics (Zhao Lab) at Rockefeller University.

The project will involve single-cell RNA-seq, genomic, transgenic, and transcriptomic experiments and analysis, in order to understand the evolution and molecular genetics of newly evolved genes and other genetic innovations. We also have multiple other projects related to immune-related micropeptides. The ideal candidate for the position will have a strong background in computational biology, as well as interests in evolutionary genomics, functional genetics, or population genetics. A *Drosophila* or human evolutionary biology background is highly desirable but not required. Candidates who have a strong background in *Drosophila* functional genetics and behavior are also encouraged to contact Li

Zhao for possible opportunities.

The Laboratory of Evolutionary Genetics at Rockefeller University is located in the Upper East Side of Manhattan in New York City. We work on a number of projects on genome evolution, gene evolution, gene function, and the genetic basis of local adaptation. Details please see <https://zhaolab.rockefeller.edu>. Rockefeller University supports a vibrant research community in insect and human genetics and genomics and creates a multidisciplinary research atmosphere for studying fundamental biological questions. We provide state-of-the-art resources and competitive salaries. Applications will be accepted until the position is filled.

To apply, please send your CV, a description of your research background and interests, and contact information for two to three references to Li Zhao at lzhao@rockefeller.edu.

Li Zhao <lzhao@mail.rockefeller.edu>

SGN Frankfurt WildlidfeGenomics

Job Announcement Ref. #12-22001

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

PostDoc (m/f/d) Position

Genomic Wildlife Monitoring/ Population Genomics of European Mammals

(full time, 3 years)

Your tasks

(Re-)Sequencing, assembly, and annotation of genomes from recolonizing (e.g., wolf, lynx, beaver) and invasive (e.g., raccoon, raccoon dog, mink) European mammals-

Analyses of large population genomic data sets to study population structure, dispersal, gene-flow and rapid adaptive evolution in mammals expanding in anthropogenic environments
Coordinating research and communication within a large network of international scientists
Publication of results in high-profile international journals
Your profile

PhD in Biology, Genetics, Bioinformatics or a related subject
Experience with analyzing genome data and population genomic analysis
Exceptional interest in wildlife biology and population genomics
Teamwork oriented and excellent communication skills with proficiency in written and oral English
What is awaiting you?

An interesting task in a dynamic team of researchers within an international research group and joining the new LOEWE TBG excellence centre with its 20 new research groups
The possibility to create a network with scientists in interdisciplinary fields in translational biodiversity genomics
Flexible working hours - dual career service - leave of absence due to family reasons (audit "berufundfamilie") - parent-child- office - annual special payment - company pension scheme - Senckenberg badge for free entry in museums in Frankfurt - leave of 30 days/year

Place of employment: Gelnhausen

Working hours: full time (40 hours/week)

Type of contract: The contract shall start as soon as possible and is initially limited for 3 years

Salary and benefits: according to the collective agreement of the State of Hesse (pay grade E13)

The Senckenberg Gesellschaft für Naturforschung supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The employer is the Senckenberg Gesellschaft für Naturforschung.

How to apply

Please send your application, mentioning the reference of this job offer (ref.#12-22001), by e-mail to recruiting@senckenberg.de. The application should include a brief cover letter detailing your research interests and experience (1 page), a CV with publication list, and copies of your certificates, transcripts and grades.

The application deadline is March 15th, 2022.

For scientific information please contact Dr. Carsten Nowak, carsten.nowak@senckenberg.de (recolonizing mammals, large carnivores, conservation genomics); see also "Genomic Biomonitoring" at <https://-tbg.senckenberg.de>. Thank you for your consideration

and interest! We look forward to your application.

Mit freundlichen Grüßen / Yours sincerely

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

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

Präsidentin: Dr. h. c. Beate Heraeus

Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

Vernetzen Sie sich mit uns: www.senckenberg.de/-socialmedia "recruiting@senckenberg.de"
<recruiting@senckenberg.de> "recruiting@senckenberg.de"
<recruiting@senckenberg.de>

UArkansas
Evolutionary Behavioral Genomics
DeadlineExt

Postdoctoral Fellow in Evolutionary Behavioral Genomics at The University of Arkansas-submission extended due to weather!

The Westerman Lab at the University of Arkansas is seeking a creative and motivated Postdoctoral Fellow to investigate the evolutionary genetics and neurogenomics of mate preference plasticity in butterflies, to begin as soon as late Spring/Early Summer 2022. The Westerman Lab studies mechanisms underlying behavioral diversity and plasticity, with a focus on sensory system development and visual learning in butterflies. Current research topics include the role of genetics and social environment in mate preference development and evolution, behavioral and developmental plasticity, and sensory biases. The lab is an integrative animal behavior group, and integrates a wide range of techniques, including, but not limited to, genomics, transcriptomics, gene editing, controlled laboratory experiments, electrophysiology, and field ecology. Research incorporates both tropical butterflies and those native to Northwestern Arkansas, and takes advantage of multiple species-rich field sites within a 30-minute drive of campus. For more information, please visit the lab website at <http://www.ericawesterman.org>. The successful candidate will be expected to work in close collaboration with Dr. Westerman on a gene editing and comparative evolutionary behavioral genomics project identifying the neurogenomics underlying visual mate preference learning, as well as to develop an independent research project within the scope of the lab. In addition, the successful candidate will be expected to collaborate with fellow lab members, and will have the opportunity to mentor undergraduate and graduate students. Dr. Westerman has collaborations within the Biology Department, as well as with faculty in both the Entomology and Plant Pathology Department and the Physics Department at UARK, and is part of a university-wide UA Integrative Systems Neuroscience group (<https://brainresearch.uark.edu/>). Postdocs in the lab will have the opportunity to work across discipline, and will be encouraged to initiate and develop innovative collaborative projects.

This technically integrative lab embraces creative approaches to studying animal behavior. Candidates with a strong background in genomics, gene editing, neurobiology, and evolutionary development are particularly encouraged to apply.

Funding is currently available to support this position for two years, with the possibility for extension depending on funding and project progress.

Minimum Qualifications:

Ph.D. in biological sciences or a related field conferred by the start of employment
 Demonstrated expertise in genomics, bioinformatics, gene editing, neurobiology, or evolutionary developmental biology techniques
 Experience with either multivariate statistics or statistical

analysis of genomic data
 Demonstrated evidence of excellent writing skills

Preferred Qualifications:

Experience using CRISPR/Cas9
 Experience in animal behavior experimental design
 Experience in live animal husbandry
 Experience in microscopy

For a complete position announcement and information regarding how to apply, visit:

https://uasys.wd5.myworkdayjobs.com/UASYS/-job/Fayetteville/Post-Doctoral-Fellow—12-MONTH_R0008203

Applicants must submit a cover letter/letter of application, curriculum vitae, and a two-page description of research accomplishments and future plans uploaded to the 'Other Document' link. A list of three professional references (name, title, email address, and contact number) willing to provide letters of reference will be requested during the application process.

Applications received by February 9th, 2022 will be given priority, though the position will remain open until filled.

For more information, please contact:

Dr. Erica Westerman

Assistant Professor

Department of Biological Sciences

University of Arkansas

ewesterm@uark.edu

The University of Arkansas is an equal opportunity, affirmative action institution. The university welcomes applications without regard to age, race/color, gender (including pregnancy), national origin, disability, religion, marital or parental status, protected veteran status, military service, genetic information, sexual orientation or gender identity. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Erica L. Westerman, PhD (she/her/hers)

Assistant Professor Department of Biological Sciences
 University of Arkansas Science & Engineering, Room 416 Fayetteville, AR 72701 ewesterm@uark.edu

<http://www.ericawesterman.org>

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mcmaster.ca/~brian/evoldir.html

UCalifornia Irvine TransposableElementEvol

Postdoctoral Fellow in Evolutionary Genomics Lab

The Lee lab at the University of California, Irvine is seeking an independent and motivated postdoctoral fellow to study how transposable elements shape genome function and evolution through epigenetic mechanisms. Toward this end, we combine population genomics, functional genomics, computational biology, and cell biology. The postdoctoral fellow will focus on the impacts of transposable elements on 3D genome organization, and how the associated functional consequences contribute to genome evolution. Candidates will ideally have interests relevant to these topics, and will have opportunities to pursue their own research interests in evolutionary genetics/epigenetics.

The lab is committed to individual mentoring and will provide opportunities for career and skill development. We will also provide resources for attending scientific seminars and conferences. Our lab is part of the Department of Ecology and Evolutionary Biology (<https://ecoevo.bio.uci.edu/>), the Center for Evolutionary Genetics (<https://evogen.bio.uci.edu/>), and Center for Complex Biological Systems (<https://ccbs.uci.edu/>), which is a vibrant multi-disciplinary center. More information about our research interests can be found at <http://grylee.science/>. The position is NIH-funded and has full benefits. Salary will depend on candidate experience. The start date is flexible and can be as early as May 2022. The position will remain open until filled.

The successful candidates will have a Ph.D. in the following or related fields: evolutionary genetics, genetics, genomics, epigenetics, cell biology, bioinformatics or computational biology. We are currently looking for candidates who (1) have extensive experience with -omics data and strong quantitative skills or (2) have extensive experience with epigenomics/cell biology. Good organizational and writing skills are also required. We particularly encourage applications from candidates who have recently completed, or will soon complete, their Ph.D. Please contact Grace Lee (grylee@uci.edu) for any questions. Informal inquiries are welcome.

To apply go to the following recruitment URL and upload the information below: <https://recruit.ap.uci.edu/>

JPF07081 The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

Grace Yuh Chwen Lee <grylee@uci.edu>

UCambridge EvolutionaryGenomics

A Research Associate post is available in the Morphological Evolution Research Group to be supervised by Emília Santos (Department of Zoology) in collaboration with Richard Durbin (Department of Genetics) at the University of Cambridge. The start date is 7 March 2022 or as soon as possible thereafter.

The successful candidate will join a vibrant and interdisciplinary research environment with an excellent international reputation. They will work as a key member of our research team investigating the genetic mechanisms underlying organismal diversification. More specifically, the candidate will investigate the genetic basis underlying variation in a sexually selected pigmentation trait within and between species of cichlid fishes. The candidate will use pre-existing genomic and phenotypic datasets to perform genotype-phenotype associations and genomic scans.

We are looking for a highly motivated candidate with a strong interest in evolutionary genetics and population genomics. The Department of Zoology has a strong Evolutionary Genetics background, with researchers working in a variety of different organisms. Furthermore, the Research Associate will work in close collaboration with other groups in Cambridge working on cichlid population genomics. The funds for this post are available for twelve months with the opportunity to be extended depending on our joint success in funding applications.

Application link with further information: <https://www.jobs.cam.ac.uk/job/33247/> Application closing date: 20.02.2022

Please do not hesitate to contact me for more information.

All the best,

Emília Santos

Emilia Santos <emilia.p.santos@gmail.com> Emilia Santos <emilia.p.santos@gmail.com>

UCL London 3 GenomicsSexualAntagonism

Three postdoc positions: genetics and genomics of sexual antagonism in fruit flies

Max Reuter and Aida Andrić's groups, University College London

We are hiring three postdocs to work with us on an ambitious and inter-disciplinary project on the genetics and genomics of sexual antagonism in *Drosophila*, funded by awards from the Leverhulme Trust and the Biotechnology and Biological Sciences Research Council. The project aims to 1) identify high-confidence sexually antagonistic loci in the genome of *Drosophila melanogaster*, 2) functionally characterise and experimentally validate such loci, 3) estimate their antagonistic fitness effects in wild populations and 4) infer the evolutionary history of antagonistic variants and assess their contribution to standing genetic and phenotypic variation in populations. The project integrates experimental approaches (experimental evolution, fitness and phenotypic assays, CRISPR/Cas9 genome editing) and computational population genomics (Approximate Bayesian Computation and/or Machine Learning). Thanks to the scale and complexity of the research programme, the project offers opportunities for each team member to lead particular aspects of the work (and resulting publications) and has scope for further directions developed by each postdoc.

We are seeking three highly motivated individuals with complementary skills (see the job description and person specification linked below) to become part of this highly collaborative team. The postdocs will be embedded within the groups of both Max Reuter and Aida Andrić at UCL and work in collaboration with Alistair McGregor at Durham University. Additional funding through a BBSRC Australia Partnering Award will also make it possible to collaborate with the research group of Tim Connallon at Monash University (Melbourne, Australia).

Work in Max Reuter's group (<http://www.homepages.ucl.ac.uk/~ucbtmre/Labsite/Home.html>) aims to understand the interplay between the genetic architecture of traits and their evolution. Approaches used include experimental work in fruit flies

and yeast, genomic approaches and theory. We recently published a genome-wide analysis of sexually antagonistic loci in *Drosophila* (Ruzicka et al. 2019, PLoS Biology), from which this project follows on. Work in Aida Andrić's group (<https://wp.cs.ucl.ac.uk/evol-genome/>) uses computational and population genetics to identify the signatures that natural selection leaves in genomes. We work on local adaptation (eg Key et al., PLoS Genetics 2018) and balancing selection, where we develop methods to identify its genetic signatures and analyse genomes to identify loci harbouring balanced polymorphisms (Bitarello et al., 2018, GBE).

Our groups are based in the Research Department of Genetics, Evolution and Environment (<https://www.ucl.ac.uk/biosciences/gee>), home to a vibrant research community spanning the fields of evolutionary genetics and genomics, phylogenetics, human genetics, evo-devo, ageing, and ecology and biodiversity. The department offers a friendly, interactive and collaborative environment, including a large and supportive community of early-career researchers. Academic life is animated by a number of seminar series featuring international, national and local speakers, as well as regular social events (such as weekly coffee mornings) that offer opportunities for informal interactions.

Our institution, UCL, is a large university in the centre of London. It offers a rich and research-focused environment, with access to state-of-the-art research facilities. London is a big and multicultural city with world-class cultural life, beautiful countryside in easy reach and (yes, still) excellent transport links to Europe and the rest of the world.

The positions are available from 1 April 2022 (negotiable) for 36 months (two posts) and 30 months (one post). Further details, including the job description and person specification and a link to application system, are available on the UCL HR website (<http://tinyurl.com/UCLAntagonismPostdocs>). The deadline for applications is 14 March 2022.

For informal enquiries about the posts please contact Max Reuter at m.reuter@ucl.ac.uk and/or Aida Andrić at a.andres@ucl.ac.uk.

Max Reuter

Research Department of Genetics, Evolution and Environment
Faculty of Life Sciences University College London
Darwin Building Gower Street, London WC1E 6BT, UK

Phone: +44-20-76792201 (internal 32201)

Lab: <http://www.homepages.ucl.ac.uk/~ucbtmre/Labsite/>



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UEdinburgh EvolutionaryMicrobiology

Postdoctoral Research Associate in evolutionary microbiology

School of Biological Sciences, University of Edinburgh

Fixed-Term Contract (01/07/2022 - 31/07/2024)

Application deadline: 14 March

Full description and link to apply: https://elxw.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/3340

Brief description:

A postdoctoral research position is available in the lab of Dr. Helen Alexander (Institute of Evolutionary Biology, University of Edinburgh). We are looking for a researcher interested in microbial ecology and evolution, for a wet lab-based role. Applicants should have (or be near completion of) a PhD in evolutionary biology, microbiology, or a related field.

The project will focus on evolution of antibiotic resistance in bacterial populations, using in vitro experiments (primarily with *Pseudomonas aeruginosa*). We aim to investigate how bacterial density (which influences competition and collective antibiotic tolerance) and antibiotic dosing (i.e. concentration and timing) impact initial emergence of resistance.

The successful applicant will join an interdisciplinary research group, that applies both theoretical and experimental methods to a variety of topics in microbial evolution and infectious disease dynamics. The postholder will be expected to work with a high degree of independence in day-to-day lab work, and encouraged to contribute their own ideas to the project direction. They will be supported in career development and conference attendance (funding available).

For more information about our research, please visit <https://www.ed.ac.uk/biology/groups/alexander> Informal enquiries about the position may be directed to helen.alexander@ed.ac.uk

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'Àrd-Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

ALEXANDER Helen <Helen.Alexander@ed.ac.uk>

UExeter EvolutionaryGenomics

The Fraser lab is looking to recruit a 1 year postdoc to join our work on the genomic basis of convergent evolution in the Trinidadian Guppy. The successful applicant will primarily lead on the quantitative genetics aim of the grant.

The position will involve processing and analysing the phenotypic and genomic data for quantitative genetics breeding crosses already in-hand. Therefore, the applicant should have experience and/or keen interests in quantitative genetics, bioinformatics, and evolutionary biology.

Application closing date: 14/03/2022 Start Date: 1/06/2022 Salary: The starting salary will be from $\pounds 36,382$ up to $\pounds 43,434$ on Grade F, depending on qualifications and experience. Location: Exeter, Devon, UK

Application link: https://jobs.exeter.ac.uk/hrpr-webrecruitment/wrd/run/-ETREC107GF.open?VACANCY_ID=-355889YYcB&WVID=3817591jNg&LANG=USA

Please do not hesitate to contact me (Bonnie Fraser) for more information at b.fraser@exeter.ac.uk

Google scholar page: <https://scholar.google.com/citations?user=ZsXGWJQAAAAJ&hl=en> “Fraser, Bonnie” <B.Fraser@exeter.ac.uk>

UFlorida DoliolidEvoDevo

Whitney Laboratory for Marine Bioscience University of Florida

A postdoctoral research position is currently available in the laboratory of Joseph Ryan, Ph.D. at the Whitney Laboratory for Marine Bioscience in St. Augustine Florida. The postdoc would work on comparative

analyses of heart development in the pelagic tunicate *Dolioletta gegenbauri* and the primary model tunicate species, *Ciona intestinalis*. The work is computational and includes comparative transcriptomics.

This is a 9-month position with the possibility of renewal. The position is available immediately. Remote work is a possibility. Diversity of background, experience, culture, race, ethnicity, gender, sexuality, ability, and more are highly valued in the Ryan Lab.

Please apply here: <http://ryanlab.whitney.ufl.edu/-hiring/doliolid.postdoc/> For more information on the Ryan Laboratory see: <http://ryanlab.whitney.ufl.edu/> Send questions to: joseph.ryan@whitney.ufl.edu

“Ryan,Joseph” <joseph.ryan@whitney.ufl.edu>

UGoettingen ExperimentalEvolution

The Division of Plant Breeding Methodology at the University of Göttingen is looking for a productive scientist to perform experimental evolution and genomic prediction studies with maize. The full job description and application information is available here:

<https://www.uni-goettingen.de/en/656456.html> Interested applicants may contact Tim Beissinger with any questions: beissinger@gwdg.de

The Division of Plant Breeding Methodology is a highly international group working on a wide array of agricultural plant species. We are closely linked to Göttingen’s Center for Integrated Breeding Research (CiBreed), which includes scientists interested in all branches of plant/tree/animal breeding and genetics.

Göttingen is a beautiful university city in central Germany with a long-standing academic tradition.

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

UKiel ComputationMolEvol

Postdoctoral Position (m/f/*) in computational molecular evolution or bioinformatics

Institute of Clinical Molecular Biology (IKMB), University of Kiel, University Hospital Schleswig-Holstein, Kiel, Germany

The Ancient DNA Group at the IKMB focuses on the evolutionary history of human infectious diseases as studied through ancient biomolecules in archaeological remains. The successful applicant will be responsible for investigating human-pathogen-interactions over the last 10,000 years by reconstructing and analyzing human and pathogen genomes from ancient DNA sequences.

Start in our team We are looking for professional and competent support to start as soon as possible, limited for 3 years. The initial contract can be extended dependent on a successful track record. The project will employ next generation sequencing (NGS) technologies to investigate the impact of ancient epidemics on the past and present-day human gene pool.

What we offer: The salary will be based on the German E 13 TV-L scale, if terms and conditions under collective bargaining law are fulfilled. Full-time employment, currently 38.5 hours/ week. Part-time employment may be compatible within the framework of certain working time models. Many employee discounts on various online platforms and with various companies. University sports and fitness at a company rate as a balance to work.

Your skills and qualifications: We are looking for a highly motivated candidate with a Ph.D. in bioinformatics, complex disease genetics, evolutionary genetics, or a related field. A strong background in bioinformatics including experience with the analysis of NGS data. A strong interest in or already existing expertise with ancient DNA is advantageous. Additional expertise in molecular evolution and genetic statistics is a plus. A strong publication record, an excellent command of English (especially in paper writing) and very good communication skills are required. You will interact with bioinformaticians, biologists as well as archeologists. Interest in archaeological and anthropological topics is expected.

Please submit your application until 21st February 2022, indicating the reference number 12751, by email to

Prof. Dr. Ben Krause-Kyora (b.krause-kyora@ikmb.uni-kiel.de).

Additional Information: Prof. Dr. Ben Krause-Kyora, Institute of Clinical Molecular Biology at the University Hospital Schleswig-Holstein, Campus Kiel, b.krause-kyora@ikmb.uni-kiel.de.

a.nebel@mucosa.de

ULB Belgium ViralLandscapePhylogeography

Postdoctoral position in Viral Landscape Phylogeography University of Brussels (ULB), Belgium Start date: as soon as possible (and no later than the 1st of July, 2022) Application date: 30 January 2022

A 2-year post-doc position is open at the Spatial Epidemiology Lab (SpELL) of the University of Brussels (ULB) to work on landscape phylogeographic approaches (<https://spell.ulb.be/subject/-landscape-phylogeography>). The position is available immediately and should start no later than July 1, 2022. The researcher will work on a research project funded by an Incentive Grant for Scientific Research awarded by the Fonds de la Recherche Scientifique (FNRS, Belgium).

The fight against high-impact viral diseases would benefit from a better understanding of the drivers of virus spreads, which could in turn help designing intervention strategies. There is a need for analytical approaches allowing to formally test the impact of environmental (e.g. ecologic, climatic or anthropogenic) factors on the dispersal of viruses. Recent advances in genomics, mathematical modelling and computational biology have led to evolutionary approaches becoming key methods to investigate the spread of infectious diseases. In particular, the development of a spatially-explicit phylogeographic method has enabled to reconstruct dispersal history of epidemics on a continuous space, using only a relatively limited number of viral sequences sampled from known locations and times. At the Spatial Epidemiology Lab (University of Brussels, ULB), one of our main research projects consists in exploiting such spatially-explicit phylogeographic to unravel the impact of external factors on the dispersal history and dynamics of viral spreads. Specifically, we aim to develop, test, compare, apply, and share novel approaches to analyse the impact of environmental factors on the dispersal history and dynamic of viral lineages.

The researcher will work on the development, test, and application of new methodological approaches to combine phylogeographic inference and analyses of the impact of environmental factors. Once tested with simulation procedures, the best methodologies will be applied on several case studies associated with notable wildlife and socio-economic impacts (e.g. West Nile virus, Lassa virus, avian influenza viruses, and rabies virus).

The researcher will be affiliated and work within the Spatial Epidemiology Lab (SpELL, <http://spell.ulb.be>), which has a recognised expertise in spatial and molecular epidemiology. Globally, the Spatial Epidemiology Lab aims to study the effect of spatial factors on the emergence, spread, persistence and evolution of diseases, as well as invasive species. The understanding of key spatial factors, such as environmental or anthropogenic variables, and their integration into spatial models is used to predict the geographical distribution of risk, which can contribute to better targeted prevention, surveillance and control measures.

The candidate should hold a Ph.D. in evolutionary biology, molecular epidemiology or phylogeography/population genetics, should have a strong interest in epidemiology and ecology, and should have demonstrated computational, communication and writing skills (English). Knowledge and use of the programming language R is required.

Applications should include a cover letter, a curriculum vitae, PDFs of the three most representative publications, and a list of three references with e-mail contact information. Applications should be submitted as soon as possible.

Contact. Dr Simon Dellicour (simon.dellicour@ulb.be)

DELLICOUR Simon <Simon.Dellicour@ulb.be>

UMainz EvolutionaryEcology

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a

Postdoctoral Research Associate

Wissenschaftliche*r Mitarbeiter*in

(salary level TV-L E 13, 100%)

The preferred starting date is June 2022 or at the earliest possible date. We offer a fixed-term full-time position for 3.5 years.

The project aims to investigate how niche choice affects the evolutionary process of insecticide resistance and gut microbiota in Colorado potato beetles (*Lepidoptera 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 Mainz and Bielefeld.

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 genomic data with high degree of independence. Applicants must demonstrate experience in statistics and experimental evolution. Experience with plant-insect interactions, insect evolutionary ecology and molecular genetics is preferred. A background in evolutionary 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.

Excellent infrastructure and work conditions are available at the University of Mainz. The working language of the lab is English. For further information, please contact [shuqing.xu <shuqing.xu@uni-mainz.de>](mailto:shuqing.xu@uni-mainz.de) @uni-mainz.de <shuqing.xu@uni-mainz.de>.

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng/>), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

Applications must be in English and include:

- (1) a motivation letter stating the research interests with reference to the stated requirements in no more than 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-mainz.de) with a subject line "NC3 Postdoc Position - Your Name". The application review will commence on 15th March 2022. The position will remain open until filled.

Shuqing Xu

Prof. Dr. Shuqing Xu Group website: <https://www.uni-muenster.de/Evolution/plantadapt/people/-shuqingxu.shtml> University of Mainz / University of Mainz.

Shuqing Xu <shuqing.xu@uni-muenster.de>

UMainz EvolutionarySingleCellGenomics

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a Postdoc position (m/f/d) in evolutionary single-cell genomics

(Salary level TV-L E13, 100%)

in the group of Evolutionary Plant Science and Biotic Interactions, headed by Prof Shuqing Xu.

The successful candidate may start on the 1st of Nov 2022, or as early as possible. The salary will initially be provided for three years, with the possibility of extension for another three years. Supported by other group members, the candidate will work on the evolution of gene functions and regulations at cellular level using the state-of-the-art single-cell genomic tools. During the project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills. The candidate is encouraged to apply for additional third-party funding to establish his/her own subgroup.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in biology, evolutionary genetics, bioinformatics or computer science. The candidate is expected to design, conduct and organize the projects independently. Experience in analysing a large amount of next-generation sequencing data, in particular, single-cell sequencing and/or comparative genomics data, with a high degree of independence. A training background in bioinformatics, evolutionary genetics and single-cell sequencing is preferred. Applicants must demonstrate experience in statistics and genomics. Experience with molecular biology, epigenetics and computational modelling are a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected. Good knowledge of German is a plus.

Excellent infrastructure and work conditions are avail-

able at the University of Mainz. The working language of the lab is English. For further information, please contact shuqing.xu@uni-mainz.de

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng/>), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

Applications must be in English and include:

(1) a motivation letter stating the research interests with reference to the stated requirements in no more than two pages, (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience, (3) an abstract of the PhD thesis, and (4) contact details of at least two referees.

Applicants should send their documents in one single PDF file to Prof.Shuqing.Xu@uni-mainz.de with the subject line "Evolutionary Single-cell Genomics Postdoc Position ' Your Name". The application review will commence on 1st April 2022. The position will remain open until filled.

Shuqing Xu

Prof. Dr. Shuqing Xu Group website: <https://www.uni-muenster.de/Evolution/plantadapt/people/-shuqingxu.shtml> University of Muenster / University of Mainz.

Shuqing Xu <shuqing.xu@uni-muenster.de>

UManitoba PolarBearPopulationVulnerability

POSTDOCTORAL FELLOW POSITION IN WILDLIFE CONSERVATION AND HEALTH DEPARTMENT OF BIOLOGICAL SCIENCES, UNIVERSITY OF MANITOBA, CANADA POSITION START DATE: We're targeting a start in April 2022, but we can be flexible with start dates. Funding is for two years.

CLOSING DATE FOR APPLICATIONS: We will begin review of applications 21 Feb 2022 and the position will remain open until filled

RANK: Post-doctoral fellow (start must be within 4 years of receiving PhD)

SALARY: \$50,000-\$55,000 per annum (plus benefits), commensurate with qualifications and experience

PROJECT OVERVIEW: Come work with the Jones and Garroway labs at the University of Manitoba, and with Evan Richardson at Environment and Climate Change Canada! Our groups are an inclusive and diverse environment, and we encourage applications from people in groups that have been historically excluded from STEM, including but not limited to women, visible minorities, LGTBQ2+, and persons with disabilities.

Polar bears in Canada are a Species of Special Concern. This project will assess the population-level health of polar bears from across the Canadian Arctic, and some zoo animals, by exploring spatial patterns in the biological age of individuals, population changes in mean biological age through time, and the relationship between biological age and environments. Lifetime stress tends to accelerate biological age, so that individuals who have lived more stressful lives tend to be older than their chronological age. Because biological age reflects overall health it is a good measure of lifetime experiences. Management action in response to population declines and the loss of genetic diversity is critical but can only occur in response to declines that have occurred or are occurring. Explorations of patterns of biological ageing patterns indicative of population-level stress could help target management action before or in the early stages of decline, periods where they should be more effective.

We will estimate biological age using new molecular tools that quantify age-related DNA methylation patterns in mammals. We have the molecular and lab expertise cov-

ered by the collaborative research team. We are most interested in a statistically strong conservation-minded person for this position.

The supervisory research team includes Meaghan Jones (<http://www.joneslaboratory.ca/>), Evan Richardson (<https://www.canada.ca/en/environment-climate-change/campaigns/50-years-environmental-action/-people-eccc/evan-richardson.html>), and Colin Garroway (www.garroway-lab.com). Please send any questions about the position to colin.garroway@umanitoba.ca and one of us will respond.

RESPONSIBILITIES: To contribute significantly to and lead the experimental design, data interpretation, and statistical analysis related to the above-described research objectives.

To trial new statistical techniques as required and keep abreast of the research literature relevant to the project.

Disseminate research through publications in peer-reviewed journals To attend and contribute to research seminars, departmental meetings, and international conferences.

Carry out administrative roles as required, e.g. organising physical or remote meetings with collaborators and arranging travel to meetings.

Perform professional activities such as refereeing papers, editing journals, refereeing research grants, external examining, organising conferences, committee membership, and involvement with professional bodies.

QUALIFICATIONS: The ideal candidate will:

* Have a PhD (current or expected at commencement of contract) in conservation biology, statistics biology, or conservation genetics.

* Have a track record of success in both funding and publications

* Have demonstrated experience in statistics * Be enthusiastic about working in an interdisciplinary team, both collaboratively and independently * Be prepared to establish leadership of the project, with previous demonstrated management skills a strong asset

CONTACT: Applicants should send their curriculum vitae, a brief cover letter expressing their research experience and research interests, and the names of two referees by email to:

Colin Garroway Associate Professor Department of Biological Sciences, University of Manitoba garroway-lab.com Colin.garroway@umanitoba.ca

Colin Garroway <Colin.Garroway@umanitoba.ca>

UNewSouthWales Sydney EvolutionaryPsychology

Postdoc Position - UNSW Sydney - Effects of Inequality on Behaviours Relates to Sex and Gender

We are looking to appoint a postdoc for 2.25 years to work with us on an Australian Research Council funded project - "How Inequalities affect attitudes and behaviours concerning sex and gender". The work includes online experiments and may include face-to-face experiments to test hypotheses about the effects of income and gender inequality on a range of gendered behaviours as well as attitudes concerning sex and gender. It will also include opportunities to collaborate on studies of ecological variation in social media, and there will be scope for the appointee to design and conduct other studies related to the area of research. You could start as early as May or as late as October - the important thing for us is to get the right person. The two Chief Investigators on this project (Rob Brooks and Khandis Blake) are based in Sydney and Melbourne respectively, but have a long track record of collaboration. We want to appoint somebody who can work with us both, and with members of our labs, helping us build the next phase of our collaboration. In our imagination, the ideal appointee will have experience running psychology experiments, including Qualtrics skills. They will have some academic understanding of evolution and a willingness to work across both evolutionary and gender psychology with a commitment to using experiments and data to test hypotheses. They will have some experience with OpenScience and a willingness to work in that framework. And they are adept at writing, speaking, planning, and communicating with colleagues. You might have only some of these arrows in your quiver, but still be what we are looking for. So please head to the UNSW Human Resources Website (<https://external-careers.jobs.unsw.edu.au/cw/en/-job/506994/postdoctoral-research-associate>) and have a look at the criteria. Then apply online. If you have informal questions about the position, the labs, or anything else, please let us know by email. (But please don't send us your application by email).

Rob.brooks@unsw.edu.au

Khandis.blake@unimelb.edu.au

rob.brooks@unsw.edu.au

Khandis

UniGE Italy Modelling Vegetation Dynamics

Postdoctoral position in modelling vegetation dynamics

The Research Group of Environmental and Applied Botany at the University of Genoa, School of Maths, Physics and Natural Sciences, Dept. of Earth, Environment and Life Sciences, Genoa, is recruiting a post-doctoral Research Assistant (m/f/d) to work in the EU-funded research project ECOLOPES, limited to 12 months (100%, approx. 40 h/week, net salary approx. 1600 euro/month).

ECOLOPES (www.ecolopes.eu) is a HORIZON 2020-FET OPEN funded research project proposing a radical change for city development: instead of minimizing the negative impact of urbanisation on nature, we aim at urbanisation to be planned and designed such that nature - including humans - can co-evolve within the city. We envisage a radically new integrated ecosystem approach to architecture that focuses equally on humans, plants, animals, and associated organisms such as microbiota. ECOLOPES will provide the technology that will help to achieve this vision.

The advertised position will be critical in implementing the modelling of population dynamics and resource requirements of plants into the computational architectural tools developed in ECOLOPES.

Your tasks

The post-doc will adapt and parameterize the model FATE-HD, that simulates plant functional groups dynamics based on abiotic filtering, competition for light, and dispersal, etc.

Plant traits, related to resource and abiotic requirements (e.g., N-fixation), life-cycle strategies, and human acceptance (e.g., appearance) will be integrated at the plant functional group (PFG) level. PFG dynamics will be spatially and temporally modelled as a function of soil, architecture, abiotic conditions, animals, and human management (e.g., mowing, weeding) using the FATE-HD model.

Specific tasks to be developed:

§Design relevant Functional Groups for ECOLOPES from the global floras

§Parameterization of FATE-HD to ECOLOPES Func-

tional Groups (e.g., relations with abiotic constraints, response to disturbances, and simplified demography and dispersal)

§Integration of the regional and local scales dynamics

§Running of simulations and adapt or develop post-treatment scripts.

§Validation of the temporal dynamics using observations

Titles and skills

§University degree (M.Sc.) and Ph.D. in ecology, biology, environmental sciences, or a comparable field of study

§Experience in modelling of population dynamics

§Excellent knowledge of R

§Experience in quantitative ecology

§Experience in modelling plant population dynamics

§Experience in using FATE-HD welcome

§Interested in interdisciplinary approaches

§Good language skills (English)

§Ability to work in a team

Offer

We offer an interesting and challenging job in a motivated international team, at the University of Genoa (Genoa, Italy). ECOLOPES partners are the Technical University of Munich in Germany (leader partner), the University of Genoa in Italy, the Technical University of Vienna, Austria, TECHNION in Haifa, Israel, McNeel Europe, based in Barcelona, Spain, and Studio Animal-Aided Design in Germany. The project team works on various topics, including biodiversity and ecosystem functioning, plant-microbiota interactions, urban ecology. Genoa is an enchanting, small city on the West Coast of the Mediterranean Sea, well connected to public transports and a perfect starting point to explore Italy.

Working hours are flexible and remuneration is in accordance with the applicable UNIGE regulations.

Details and contact

More details on post-doc enrolment and required documents for application can be found here: <https://-unige.it/en/ricerca/assegni-ricerca>. Call publication by 22nd February 2022 can be available here: Calls for research grants | unige.it Deadline for application: 24th March 2022.

Please direct questions about the position to Prof. Enrica Roccotiello, Università degli Studi di Genova (enrica.roccotiello@unige.it) and Dr. Isabelle Boulangeat

(isabelle.boulangeat@inrae.fr), LESSEM (Ecosystems and Society in Mountains), INRAE of Lyon- Grenoble, Site de Grenoble.

More information about the project can be found at www.ecolopes.org More information about the Research Group in Environmental and Applied Botany can be found at <http://www.distav.unige.it/-drupalint/schede-ricerca-eng> Maria Guerrina <maria.guerrina@edu.unige.it>

UOxford StatisticalGeneticsInfectiousDisease

Danny Wilson's Infectious Disease Genomics Group <<http://www.danielwilson.me.uk>> Big Data Institute <<https://www.bdi.ox.ac.uk>>, part of Oxford Population Health Deadline 12.00 noon UK time on 18th March 2022.

Grade 8: $\ddot{i}_{\frac{1}{2}}42,142 - \ddot{i}_{\frac{1}{2}}50,296$ p.a. (senior postdoc) or
Grade 7: $\ddot{i}_{\frac{1}{2}}33,309 - \ddot{i}_{\frac{1}{2}}40,927$ p.a. (postdoc)

I am seeking a postdoc in Statistical Genetics and Infectious Disease to join my research group at the Big Data Institute, University of Oxford. Our research into Infectious Disease Genomics is focused on developing and applying big data methods to identify genetic risk factors for disease, both microbial virulence factors and human susceptibility genes. We are focused on a range of bacterial and viral diseases including staphylococcal sepsis and COVID-19.

The Big Data Institute, part of Oxford Population Health, provides an excellent environment for multi-disciplinary research and teaching. Situated on the modern Old Road Campus in the heart of the medical sciences neighbourhood of Headington, we benefit from outstanding facilities and opportunities to collaborate with world-leading scientists and clinicians to help expand knowledge and improve global health.

As a Senior Postdoc the post-holder will work closely with me to jointly lead the implementation, design and application of new statistical tools for genome-wide association studies, and to lead the biological interpretation of key findings. They will 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 at the Senior Postdoc level applicants will have a PhD and post-doctoral experience in a rel-

evant 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. The closing date for application is 12.00 noon GMT on 18th March 2022.

For more information including how to apply, visit 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=156258

Associate Professor Daniel Wilson Big Data Institute Robertson Fellow, Oxford Population Health Director of Studies in Data Science, Dept. for Continuing Education University of Oxford Web: www.danielwilson.me.uk Daniel Wilson <daniel.wilson@bdi.ox.ac.uk>

UPadua EvolutionDiversity

University of Padua, Evolutionary Patterns for Biocultural Diversity

POSTDOCTORAL RESEARCHER IN EVOLUTION OF BIO-CULTURAL DIVERSITY

(fields: evolutionary biology; ecology; philosophy of biological sciences)

Fully funded 3-year postdoctoral position available at the Department of Biology, University of Padua, Italy, starting 1.4.2022.

The researcher will work on a project investigating the common evolutionary patterns underlying biological and cultural evolution, with a focus on Italy as a hotspot of biocultural diversity.

Research objectives during the three years:

- 1) checking the correspondence between biological diversity and cultural diversity in Italy on the basis of existing data (literature analysis);
- 2) verifying the metrics of cultural diversity as proxies for quantification (selection for the Italian case-study);
- 3) testing hypotheses on the common patterns of evolution of biological and cultural diversity in Italy (literature analysis, selection of models);

4) comparing the Italian case with similar cases of Internationally known bio-cultural diversity hotspots (literature analysis, missions abroad);

5) (final year) testing the model with a field-study in Italy.

Expected results at the end of the research period:

Three articles presented in peer-reviewed international scientific journals, in the first three years.

National and international membership and press launch at the end of the three-year period (conventions, conferences, videos, cross-media communication).

Candidates with the following qualifications are entitled to take part in this selection notice:

PhD graduates.

Candidates must be in possession of a degree by the selection notice deadline.

Basic skills in statistics are also required.

The appointed researcher will work in collaboration with other members of the research group, supervised by Prof. Telmo Pievani.

The application may only be submitted by completing the online procedure available at <https://pica.cineca.it/-unipd/> from January 26, 2022 at 12.00 a.m. to February 25, 2022 at 12.00 a.m. (CET).

The date of the telematic interview is set for March 08, 2022 at 02.00 p.m. (Italian time zone).

For further information and to apply please see documents available at: Selection notice for Type A Research Grant - Department of Biology UniPd < https://www.biologia.unipd.it/bacheca-di-dipartimento/-visualizza/news/bando-di-selezione-per-il-conferimento-di-n-1-assegno-di-ricerca-di-tipo-a-della-durata-di-36-mesi-r/?tx_news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=69d14e64228fadcc872a163b5838f31a >

For informal inquiries please contact the supervisor:

https://www.biologia.unipd.it/people/-?tx_wfqbe_pi1%5Baccount%5D=dietelmo-pievani
Telmo Pievani

University of Padua - Department of Biology

Full Professor Philosophy of Biological Sciences

Vallisneri Building - Via U. Bassi 58/B

35131 - Padova

dietelmo.pievani@unipd.it

www.telmopievani.com

Sofia Belardinelli

<sofia.belardinelli96@gmail.com>

UPittsburgh SpeciesInteractionsEvolution

Postdoctoral position in

Species interactions and evolutionary response to climate change

Postdoctoral position the ecological effects of plant evolutionary response to climate change. The postdoc will assess consequences of climate adaptation on biotic interactions, i.e., plants-microbes, plants-pollinators.

Responsibilities include setup and collection of data from greenhouse and field experiments, use of herbarium datasets; analysis of data on species interactions, including community composition and interaction networks, and characterizing plant traits and fitness, and the preparation of manuscripts for publication.

Position affords opportunities for undergraduate mentoring, scientific outreach, and the design and implementation of allied projects tailored to the skills and interests of the postdoc.

An ideal candidate has the following characteristics: 1) is evolutionary-minded, creative and a collaborative spirit, 2) background in community ecology, population biology or microbial or plant biology, 3) experience with insect identification, techniques for characterizing microbial communities and/or willingness to expand expertise, 4) strong statistical and writing skills.

Position is for two years and will be based in the Department of Biological Sciences at the University of Pittsburgh, Pittsburgh, PA. Start date is negotiable, but expected Spring/summer 2022.

TO APPLY: Please send a CV and a cover letter describing your experience and interests to tia1@pitt.edu along with the names and contact information for three referees. Review of applications will commence immediately and continue until filled.

Dr. Tia-Lynn Ashman Distinguished Professor Department of Biological Sciences University of Pittsburgh Pittsburgh Pa 15260 412 624-0984

“Ashman, Tia-Lynn” <tia1@pitt.edu>

UppsalaU EvolutionaryGenomics

2-year post-doc in Evolutionary Genomics Uppsala University, Sweden We are looking for a postdoctoral researcher (2 years) to work on the evolutionary genomics of adaptive divergence willows (*Salix*) within a project funded by the Swedish Science Council and the Carl Tryggers foundation.

Willows are a large a diverse genus of dioecious shrubs and trees that occur in various habitats on the Northern Hemisphere, including arctic and alpine habitats. Research questions are expected to include 1) evolution of dwarf growth forms at high altitude and 2) ecological genomics of polyploidization in a ploidy-variable species and its putative progenitors. The post-doc will work in close association with and contribute to an ongoing project on the evolution of sex-determining mechanisms in *Salix*. The development of further research questions and approaches is highly encouraged, in particular regarding speciation mechanisms (reproductive isolation) and adaptive divergence.

The postdoc will benefit from our Swedish and international collaborators as well as from a newly generated draft genome of a dwarf willow, tissue collections and ongoing greenhouse cultivation of an Alpine dwarf species.

The position will be based at the Evolutionary Biology Centre (EBC) at Uppsala University, Sweden where the post-doc will join a highly international and stimulating environment (www.ieg.uu.se). Uppsala is a vibrant student town surrounded by beautiful nature and not far from Stockholm, the capital of Sweden.

Applicants should have a PhD or postdoctoral experience in a relevant area (evolutionary biology, population genomics, ecological genomics). We will prioritize candidates with a strong interest in evolutionary biology. Experience with population genomic methods, as well as skills in bioinformatics and programming, are required. Prior experience with plant ecology is also very welcome, but not strictly necessary. Our working language is English and candidates should be fluent in spoken and written English.

The post-doc is funded by a 2-year stipend from the Carl Tryggers foundation. The starting date is flexible, ideally between mid-March and June 2022. Both Swedish and International candidates are welcome, however, candidates cannot hold a current or recent em-

ployment/placement at Uppsala University. PhD exams must have been taken within the last 6 years.

Informal inquiries to Sophie Karrenberg (sophie.karrenberg@ebc.uu.se) are welcome! Full applications should be sent by e-mail to Sophie.karrenberg@ebc.uu.se, including 1) motivation letter, 2) a detailed CV, 3) a list of publications, and 4) contact details of three referees. Review of applications will begin from February 15, 2022. The position will remain open until a suitable candidate is found.

See also: <https://www.ieg.uu.se/plant/karrenberg-group/> 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> Sophie Karrenberg <sophie.karrenberg@ebc.uu.se>

UppsalaU EvolutionOfHostAdaptation

POSTDOCTORAL FELLOW IN EVOLUTIONARY MICROBIOLOGY We are announcing a 2-years postdoctoral fellowship in Lionel Guy's research group at Uppsala University.

PROJECT Our group is studying the evolution of host-adaptation in bacteria. In this particular project, we aim to explore early infections and the role of phagocytosis. The ability to feed on other organisms through phagocytosis is a crucial step in the evolution of eukaryotes, a prerequisite for food webs, multicellularity and, arguably, the acquisition of mitochondria. It also paved the way for intracellular parasitism, as some bacteria avoided digestion by their hosts and multiplied in the nutrient-rich cytoplasm. Here, we focus on the Deep-branching Intracellular Gammaproteobacteria (DIG), a large group of related bacteria (e.g. *Legionella* and *Francisella*) with a wide variety of host-adaptation strategies. We hypothesize that the last common ancestor of DIG, appeared during eukaryogenesis, circa 2 billion years ago, and was among the first bacteria to infect eukaryotes. To test this hypothesis, the fellow will gather a solid set of DIG genomes, reconstruct their evolutionary history, assess their metabolic potential, and identify their

host-adaptation genes. The goal is to better understand the relationships between the first eukaryotes and their early invaders, thereby shedding light on eukaryogenesis, particularly on the role of phagocytosis.

FORM Two-years post-doctoral fellowship (SEK 300 000, circa EUR 28 300, per annum), free of tax. Fellowship rules exclude candidates with a PhD from, or already employed at, the host institution (Uppsala University). The candidate should in principle have obtained their PhD at most six years before the start of the project. The candidate has to be approved by the funder. Starting date: to be discussed. The fellowship is funded by the Carl Trygger Foundation.

BASIC SKILLS AND QUALIFICATIONS - A PhD in evolutionary biology, molecular evolution, microbiology or related topic. - Experience with high-throughput sequencing data, metagenomics, comparative genomics, and molecular evolution tools. - A documented experience of team work and collaborative projects.

DESIRED QUALIFICATIONS - Programming experience - Experience with acquiring metagenomics data

APPLICATIONS To be sent by email to lionel.guy@imbim.uu.se, latest on 14 March 2022. Applications (in one single document) must include: - Letter of motivation - Resume - Publication list - Names and contact information of two references or two letters of reference

HOST INSTITUTION The group is located at the Department of Medical Biochemistry Microbiology, Uppsala University. The host department is a very strong and stimulating research environment, counting over 250 researchers in over 30 groups, and is conducting world-leading research in microbiology.

Uppsala University is a comprehensive research-intensive university with a strong international standing. Our mission is to pursue top-quality research and education and to interact constructively with society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 50 000 students, 7 000 employees and a turnover of SEK 7.4 billion.

CONTACT Lionel Guy, M: lionel.guy@imbim.uu.se, P: +46 18 471 42 46, W: <https://www.imbim.uu.se/-research-groups/infection-and-immunity/guy-lionel/> Lionel Guy Department for Medical Biochemistry and Microbiology, Uppsala University, Uppsala, Sweden phone: +46 18 471 4246; mobile +46 73 976 0618; postal address: Box 582, SE-751 23 Uppsala; visiting address: BMC D7:308b, Husargatan 3, SE-752 37 Uppsala lionel.guy@imbim.uu.se

Lionel Guy <guy.lionel@gmail.com>

UppsalaU SexChromosomeEvolution

PostDoc Position at Uppsala University - Sex chromosome evolution Systematic Biology, Department of Organismal Biology, Evolutionary Biology Centre, Uppsala University, Sweden.

A two-year position on a Carl Tryggers post-doc stipend is available to research sex chromosomes evolution in morabine grasshopper with Dr. Octavio M. Palacios-Gimenez at Uppsala University.

Project description: Sex is a fundamental and ancient feature of eukaryotic reproduction often associated with the presence of specialized sex chromosomes involved in male or female development. Despite the importance and conservation of sexual reproduction, there is a notable diversity of sex chromosomes within and between sexes: XY system (male XY, female XX) and ZW system (male ZZ, female ZW). This diversity is likely to have key consequences for multiple facets of evolution, as sex chromosome play critical roles in adaptation, speciation and sexual dimorphism but it is unclear how sex chromosomes form and what kind of sex-specific changes occur in newly evolved sex chromosomes. Understanding the causes and consequences of sex chromosome evolution requires study systems where sex chromosomes have evolved recently and independently several times. The overall aim of this project is to investigate the early signatures of sex chromosome evolution using the grasshopper *Vandiemenna viatica* species complex. Multiple chromosomal fusions between the ancestral X chromosome and autosomes (neo-X) resulted in the formation of new Y chromosomes in different races/species. The independent sex chromosome mutations in the *V. viatica* species complex thus allow independent comparisons to investigate the timing and patterns of newly evolved sex chromosomes. The project will use genomics, transcriptomics, single cell resolution, and cytogenetics to answer: how is recombination suppressed between sex nascent sex chromosomes? How does gene regulation evolve after recombination suppressions? How fast does the neo-Y degenerate after recombination suppression?

Requirements: Applicants should hold a PhD degree in biology, genetics/genomics, bioinformatics or a related field, and general molecular biology laboratory skills. Experience with analyzing different types of single-molecule sequencing, HiC and RNA-seq data, as

well as annotation of genes and repetitive elements, is required. Candidates must have received their PhD from an institute other than the Institute of Organismal Biology at Uppsala University and cannot currently have employment at the Department of Organismal Biology. Proficiency in spoken and written English is required.

Additional qualifications: Programming in Perl, Python and/or R and experience in cytogenetics are desirable.

Type of position: Postdoctoral fellowship for 24 months, salary provided by the Carl Tryggers Foundation.

Scope of stipend: 100%

Salary: Individual stipend.

Starting date: As soon as possible.

Please submit your application by 10 April 2022. For further information about the position, please contact: Octavio M. Palacios-Gimenez, email octavio.palacios@ec.uu.

Additional info: Uppsala is a great town to live in, and the Evolutionary Biology Centre offers a super interdisciplinary working environment located at the heart of Uppsala. Uppsala is located 40 minutes north of Stockholm by train, 20 minutes from Stockholm's international airport.

Octavio M. Palacios-Gimenez Researcher Uppsala University Norbyvägen 18D 752 36 Uppsala, Sweden 752 36 Scope of employment: 100%

Octavio Manuel Palacios Gimenez
<octavio.palacios@ebc.uu.se>

USaoPaulo Macroevolution

#Post-doctoral fellowship on Diversification dynamics of interspecific competition

The laboratory of Macroecology and Macroevolution (LabMeMe) at Universidade de São Paulo, Brazil, is seeking for a motivated postdoctoral fellow to work on a project entitled “Diversification dynamics of interspecific competition: the role of niche similarity and spatial overlap”. The main goal of the project is to study the role of species competition on diversification dynamics by developing and applying (to fossil record data) new models designed to measure the “intensity of competition” (please see the abstract of the project below). The fellowship is initially designed for 2 years but might be extended.

#Project abstract: Most macroevolutionary approaches designed to study the role of species interactions on diversification dynamics have relied on rather indirect evidence. Interspecific competition has been the most often studied kind of interaction. The following patterns have been interpreted as evidence of competition: a- statistical association between diversity trajectories of two potential competitor clades; b- the inference of diversity-dependent diversification dynamics (within or between clades); c- a statistical association between diversification rates of two or more clades. Additionally, most previous studies have not explicitly taken into account spatial overlap, except perhaps by doing analysis at the continental level. That said, the field of macroevolution has recently advanced by developing new process-based models devoted to study interspecific competition. Unfortunately, those have, for the most part, been focused on the use of molecular phylogenies and on the effect of species interactions on trait evolution. Here we propose to develop new models that better capture the nature of interspecific competition and use those models to study the effect of interspecific competition within and between clades on diversification dynamics. More specifically, we will develop and use models that take into account niche similarity and spatial overlap to build time series that described the “intensity of competition”. Different lineages of mammals, in particular families within Carnivora, will be targeted as the study systems.

#Desired qualifications and skills include:

a PhD in evolution, ecology, paleobiology or related fields.

strong quantitative background

Knowledge of at least one programming language (R, Python, or others).

#Application Instructions:

Applicants must submit, in a single pdf, the following information: (1) a curriculum vitae; (2) a description of relevant research experience and motivation/interest in the current position (2 pages maximum); (3) contact information (e-mail addresses) for at least two professional references.

The positions are open to Brazilian and foreign citizens. The selected candidates will receive a FAPESP postdoc fellowship - current salary of R\$7.373,10 per month. The candidate will also receive 15% of its annual income for research expenses.

Deadline for applications is March 15th 2022. Reference letters will only be requested for applicants under serious consideration.

Tiago Bosisio Quental <tbquental@usp.br>

USouthCarolina Aiken PopulationGenomics

Post-Doctoral Fellow, UofSC Aiken, Department of Biology & Geology

The Ramstad Lab < <https://www.usca.edu/biology-geology/research/faculty-labs/ramstad-lab> > at the University of South Carolina Aiken is seeking applicants for a full-time, one-year postdoctoral position with a preferred start date of 1 August 2022. Research in the Ramstad lab focuses on conservation genomics of diverse vertebrate systems. The successful candidate will participate in genomic studies to understand the genetic basis of migration in the federally threatened American wood stork and red body color in sockeye salmon. Primary duties will include bioinformatic analyses (including GWAS with whole genome sequences), genomic data management (including using Rmarkdown and Git) and preparation of peer-reviewed manuscripts. The position will be excellent training for those considering a career that balances research and teaching. The successful candidate will participate in teaching undergraduate courses (BIOL 350 - Population Genomics and BIOL 352 - Fundamental Genetics), organizing and teaching a Bioinformatics Workshop and mentoring undergraduate researchers.

UofSC Aiken is consistently ranked as the #1 Regional Comprehensive Public College in the South by U.S. News & World Report and has been designated a 'Best Place to Work' by The Chronicle of Higher Education. The city of Aiken has been ranked as the 'Best Small Town in the South' by Southern Living Magazine. Numerous beaches, the Blue Ridge Mountains and two national parks are all within a three-hour drive of Aiken.

Education Requirement: Candidates must have a Ph.D. in Biology, Bioinformatics, or related area with a focus on conservation or population genomics. Demonstrated proficiency in bioinformatic techniques, including processing of next generation sequencing data (e.g., WGS, GWAS, RADCap), is required. Strong candidates will have experience in computer programming, including writing and troubleshooting code, and a publication record from their graduate or other work (papers published, in press, or submitted).

Application process: Submit a completed application

by 1 April for full consideration; applications will be accepted until the position is filled. Interested applicants should apply online at <https://uscjobs.sc.edu/postings/108463> and submit: a) cover letter describing your research interests and motivation, how your skills are aligned with the needs of the position and your future research interests/plans and b) current curriculum vita. Finalists will be asked to submit three letters of recommendation. Women and minorities are encouraged to apply. UofSC Aiken is an AA/EOE.

Dr Kristina M Ramstad

Associate Professor Department of Biology and Geology University of South Carolina Aiken 471 University Parkway Aiken, SC 29801

Kristina Ramstad <KristinaR@usca.edu>

UTennessee MossAdaptations

Post-Doctoral Research Associate - Ecology & Evolutionary Biology The Budke Lab (<http://jmbudke.github.io/>) in the Department of Ecology & Evolutionary Biology at the University of Tennessee is seeking a Post-Doctoral Research Associate for an NSF-funded project. The goal of this project is to investigate adaptations that regulate parent-offspring conflict in moss plants. The primary responsibilities of the postdoctoral researcher will be the laboratory-based generation of DNA sequence data using herbarium specimens followed by bioinformatic analysis to analyze the evolution of morphological structures involved in the parent-offspring conflict. Opportunities will also be available to develop novel research questions focusing on the functional morphology, physiology, and evolution of the parent-offspring conflict in mosses. Supervising and mentoring undergraduate researchers in both the laboratory and field will be required. An additional aim of this project is to build awareness of and appreciation for plants and botanical natural history collections. As part of the team, the postdoc will engage middle school students in hands-on activities and develop a May-term course for undergraduate students at the University of Tennessee. About The Department of Ecology & Evolutionary Biology and the University of Tennessee The Department of Ecology & Evolutionary Biology values the quality of life of all its members, and we are committed to recruiting and retaining a diverse community and to supporting the intercultural goals of the University. Knoxville is an exciting city that has undergone a vibrant civic revitalization over

the past several years and is being recognized as one of the most exciting up-and-coming regions in the country, yet it remains one of the most affordable cities in the United States. Nestled in the foothills of the Great Smoky Mountains, Knoxville offers a broad spectrum of educational, recreational, and cultural opportunities. Qualifications: $\frac{1}{2}$ A PhD in biology, ecology and evolution, systematics, or a related field. This degree must be completed by September 2022. $\frac{1}{2}$ Research experience in molecular systematics and morphological evolution of plants, particularly using next-generation sequencing data. $\frac{1}{2}$ Proficiency using bioinformatic tools to infer phylogenetic trees and undertaking comparative analyses, with experience using R preferred. $\frac{1}{2}$ Motivation to engage with botanical outreach and education. $\frac{1}{2}$ A strong work ethic with the ability to work independently and as part of a team. $\frac{1}{2}$ Excellent verbal and written communication skills. $\frac{1}{2}$ The ability to bring projects to fruition as demonstrated by a strong record of publication in peer-reviewed journals. $\frac{1}{2}$ Experience with and a passion for seed-free plants and herbarium-based research is advantageous. If in doubt, apply: please do not self-select yourself out from what might be a mutually beneficial position. Timeline and How to Apply: Review of applications will begin on 4 April 2022 and will continue until the position is filled. The preferred start date is June 2022 with the flexibility to extend the start date to September 2022.

The initial appointment is for one year with funding available to extend up to three years, contingent on performance. Apply through the University of Tennessee system at this link: https://ut.taleo.net/careersection/ut.system/jobdetail.ftl?job=22000000CZ&tz=GMT-05%3A00&tzname=America%2FNew_York Please include the following items in a single document with the online application: (1) a cover letter (include expected completion date of PhD, if appropriate), (2) a CV, and (3) contact information for three references. The starting salary for this position is \$48,000/year with annual increases contingent on performance. Full benefits are included.

J.M. Budke, PhD (she/her) Assistant Professor & Herbarium Director (TENN) Ecology and Evolutionary Biology University of Tennessee 569 Dabney Hall Knoxville, TN 37996 Office: 342 Hesler Biology Building Office Phone: (865) 974-6204 Lab: 316 Hesler Biology Building Lab Phone: (865) 974-2635 TENN Herbarium Office: 102 Temple Hall Herbarium Phone: (865) 974-6212 Budke Laboratory Research: <http://jmbudke.github.io/> GLOBAL Bryophyte & Lichen TCN: <https://globaltcn.utk.edu/> jbudke@utk.edu jbudke@utk.edu

UVictoria BritishColumbia SelfishXChromosomeDrosophila

The Perlman lab, in the Department of Biology at the University of Victoria, in British Columbia (BC), Canada, is hiring a postdoctoral researcher to work on selfish X chromosomes in *Drosophila*. We are looking for highly motivated applicants who are excited about research, and with a PhD and publications in evolutionary genetics, evolutionary genomics, and/or *Drosophila* genetics. While the start date is flexible, summer or fall 2022 are preferred. Funding is available for 1 year initially, with the possibility of renewal for a 2nd year?.

For more information about our lab, please visit our lab web page: <http://perlmanlab.weebly.com> Victoria is a small, beautiful, liveable city on Vancouver Island, and the provincial capital of BC, close to Vancouver, BC and Seattle, Washington. The University of Victoria is a large public research university, and the Biology Department is a friendly, collegial place, with over 30 faculty members, including a big interactive group of evolutionary biologists, including Rana El-Sabaawi, Ryan Gawryluk, Ben Koop, Greg Owens, Dave Punzalan, Tom Reimchen, and John Taylor.

To apply, please send a CV and a 1-2 page statement of research interests and experience, along with the names and contact information of 2 references, to Steve Perlman (stevep@uvic.ca), with 'postdoctoral position in selfish X chromosomes' in the subject heading. Applications will be reviewed starting March 1, 2022, and will be accepted until the position is filled. Please contact Steve Perlman if you have any questions about the position.

Steve Perlman Professor Department of Biology University of Victoria

stevep@uvic.ca

UWisconsin Milwaukee KelpGenomics

The Department of Biological Sciences at the University of

Wisconsin-Milwaukee (UWM) is currently accepting application submissions for a postdoctoral appointment in Dr. Filipe Alberto's laboratory.

The postdoctoral fellow will work on population genomics analysis of large brown algae (kelps). The Alberto lab is currently applying genomic analysis to the conservation and breeding of giant (*Macrocystis pyrifera*) and bull (*Nereocystis luetkeana*) kelps in the northeast Pacific.

Candidates with a strong bioinformatics background are preferred to tackle large data sets of WGS sequenced individuals. We are looking for someone with demonstrated experience (as evidenced by publications and letters of reference) in at least two of the following broad topics: differential expression analysis from RNA-seq experiments; analysis of large sets of WGS data mapped to an annotated reference genome, including characterization of genomic regions under selection, demographic and seascape genomics analysis; simulation and analysis of population genomics data sets, genomic analysis of epigenetic variation. The candidate should be familiar with UNIX operating systems (e.g., Linux), bash scripting, and code in at least one programming language, preferably Python or R.

Applicants are required to have a PhD. in evolutionary ecology, plant breeding, population genetics/genomics, genetics, or similar field. The postdoctoral fellow will have the opportunity to collaborate with our extended network of partners, including but not limited to, the following groups, Bob Miller and Dan Reed from UCSB, Sergey Nuzhdin from UCS, Pete Raimondi from UCSC, Scott Lindell and Charles Yarish from WHOI, the Puget Sound Restoration Fund team, The Nature Conservancy California Oceans team, and the California Conservation Genomics consortium.

Informal inquiries about our projects are encouraged. Please apply by sending a single pdf document, including

1. CV,
2. a declaration of research interests,
3. previous experience and fit for the position, and
4. the email address and telephone number of three potential contacts for reference letters.

Applications should be emailed to Dr. Filipe Alberto, albertof@uwm.edu. The initial contract will be for one year with a possible extension to one additional year. The review of applications starts February 28, and will continue until the position is filled. The position is expected to begin as soon as possible.

UW-Milwaukee is an AA / EEO employer strongly committed to maintaining a climate supporting equality of

opportunity and respect for differences based on gender, culture, ethnicity, disability, sexual orientation, marital status, race, color, religion, national origin or ancestry, age and lawful activities.

For more information about the lab see: alberto-lab.blogspot.com

UWM has an active group of researchers studying evolutionary ecology and behavior:

<https://uwm.edu/biology/research/ecology-evolution-and-behavior/> Filipe Alberto Associate Professor

Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

URL: <http://alberto-lab.blogspot.com/> URL: <http://-giantkelpbreeding.com> Email: albertof@uwm.edu Tel: 414-251-8262

albertof@uwm.edu

YaleU ConservationBiodiversity

Postdoc positions in Quantitative Conservation, Ecology, and Global Biodiversity Science

As part of a new cohort hire, six postdoctoral positions are available in association with the Yale Center for Biodiversity and Global Change (BGC Center), the Max Planck-Yale Center for Biodiversity Movement and Global Change, and Map of Life. These are 2-3-year positions, some with the potential for longer-term (non-ladder faculty) employment. <https://bgc.yale.edu> Quantitative Conservation Science - <https://bgc.yale.edu/opportunities/pd-conservation> Global Macroecology and Macroevolution - <https://bgc.yale.edu/opportunities/pd-macroecology> Quantitative Ecology - <https://bgc.yale.edu/opportunities/pd-quantitativeecology> Animal Movement and Global Change - <https://bgc.yale.edu/opportunities/pd-mpyc> Global Marine Biodiversity Conservation - <https://bgc.yale.edu/opportunities/pd-marine> Global Biodiversity of Vascular Plants - <https://bgc.yale.edu/opportunities/pd-plants> Diversity, equity, and inclusion are core values of the Center, and we are committed to ensuring our workplace reflects those values. As such, we strongly encourage applications from researchers identifying as a member of a historically marginalized group.

The Yale BGC Center connects biodiversity scientists

from across campus and supports research and training around the use of new technologies and data flows for model-based inference and prediction of biodiversity change. One flagship BGC Center project is Map of Life. Other initiatives associated with the Center include the integration of spatial, phylogenetic, and functional dimensions of biodiversity (e.g., VertLife, ButterflyNet), NASA-supported remote sensing-informed layers and tools for biodiversity modelling EarthEnv, biodiversity movement analysis (through the Max-Planck Yale Center), and the Wildlife Insights initiative for camera trap-

ping data.

Yale University offers researchers and staff competitive salaries and a generous package of benefits. Yale has a thriving and growing community of young scholars in ecology, evolution, and global change science in the EEB Department, the Yale Institute for Biospheric Studies, the Peabody Museum, and the Yale School of the Environment. New Haven is renowned for its classic Ivy League setting, 75 miles northeast of New York City.

“Jetz, Walter” <walter.jetz@yale.edu>

Workshops Courses

Austria Student4studentSummerSchool Sep5-9 Abst-DeadlineFeb16	112	Oxford StatisticalGenomics Jun19-24	116
CeskyKrumlov PopulationSpeciationGenomics Jun5-17	113	Raleigh NorthCarolina EvolMedicineSummerInst May15-20	117
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Austria Student4studentSummerSchool Sep5-9 AbstDeadlineFeb16

Dear all,

This is a reminder of the abstract submission deadline for S4SSS: February 16th, 23.59 CET.

S4SSS is organized by PhD students for PhD students.

Several sessions and workshops will be held within five focus groups, and one common theme: mountain research.

The summer school will take place in Obergurgl, in the middle of the Austrian Alps, September 5-9.

Abstract submission:

<https://www.imc2022.info/summerschool/> The summer school takes place in the context of the International Mountain Conference 2022, Innsbruck, Austria, for which it is also possible to submit an abstract: <https://www.imc2022.info/> All the best,

Lisa Capponi PhD student, Department of Ecology University of Innsbruck

“Capponi, Lisa” <Lisa.Capponi@uibk.ac.at>

CeskyKrumlov
PopulationSpeciationGenomics
Jun5-17

2022 Workshop on Population and Speciation Genomics, ÅeskÅ½ Krumlov, Czech Republic

The 2022 Workshop on Population and Speciation Genomics brings together an international collection of faculty members and Workshop participants to study and discuss current ideas and techniques for the analysis of genomic data on the level of populations and closely related species. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover theory and practice of population and speciation genomics analyses.

Dates: 5 - 17 June, 2022

Application Deadline: 8 April, 2022.

Confirmed Faculty: Alex Buerkle - University of Wyoming, US Rasmus Nielsen - University of California, Berkeley, US Thorfinn Korneliussen - University of Copenhagen, Denmark Leonie Moyle - Indiana University Bloomington, US Matthew Hahn - Indiana University Bloomington, US Walter Salzburger - University of Basel, Switzerland Chris Jiggins - University of Cambridge, UK Alexander Suh - University of East Anglia, UK Valentina Peona - Uppsala University, Sweden Matteo Fumagalli - Imperial College London, UK Flora Jay - Université Paris-Saclay, France Simon Myers - University of Oxford, UK Leo Speidel - University of Oxford, UK Georgia Tsambos - University of Washington, US

Registration Fee: \$1950 USD. Fee includes the opening reception and access to all course material, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels.

APPLY HERE: <http://evomics.org/apply-2022-workshop-on-population-and-speciation-genomics-cesky-krumlov/> Workshop Schedule: <http://evomics.org/2022-workshop-on-population-and-speciation-genomics-cesky-krumlov/> Frequently Asked Questions (FAQ) about the Workshop and ÅeskÅ½ Krumlov: <http://evomics.org/workshops/faq/> Workshop Team: Julia M.I. Barth, Scott Handley, Milan Malinsky, Michael Matschiner, Britta S. Meyer, Walter Salzburger, Jan Stefka, Emiliano Trucchi

Michael Matschiner <michael.matschiner@nhm.uio.no>

Finland MathEcolEvolution
Aug21-28

THE HELSINKI SUMMER SCHOOL ON MATHEMATICAL ECOLOGY AND EVOLUTION 2022

After the postponements forced upon by the pandemic, we are glad to announce that the 7th edition of The Helsinki Summer School on Mathematical Ecology and Evolution, an EMS-ESMTB School in Applied Mathematics, will be held between 21 and 28 August 2022 in Turku, Finland.

The core program consists of five series of lectures:

Josef Hofbauer (University of Vienna): Dynamical systems in mathematical ecology Gergely Rñ½st (University of Szeged): The mathematics of infectious diseases Pieter Trapman (Stockholm University): Stochastic models of epidemics Jarno Vanhatalo (University of Helsinki): Linking ecological models to data through Bayesian statistics Christian Hilbe (Max Planck Institute for Evolutionary Biology): Dynamics of social behaviour

All young researchers working in mathematical ecology can apply from all countries, especially from Europe and the Mediterranean. The school is aimed at graduate students of mathematics, but we also welcome students of biology with sufficient background in mathematics, advanced undergraduates, and postdocs.

For more information and details of the application procedure, please visit the school's webpage <https://wiki.helsinki.fi/display/BioMath/The+Helsinki+Summer+School+on+Mathematical+Ecology+and+Evolution>

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

“Kisdi, Eva” <eva.kisdi@helsinki.fi>

Online
GeneSetEnrichmentAnalysisInR
May3-6

Dear all, registrations are now open for the Physalia course “Gene Set Enrichment Analysis (GSEA) in R”

Dates: ONLINE, 3-6 May 2022 Course website: (<https://www.physalia-courses.org/courses-workshops/-gse-in-r/>)

In this course, we will teach the use of popular GSEA tools, both for online-based tools and those implemented as R packages. We will give a detailed introduction on a variety of methods of GSEA analysis, including overrepresentation analysis, univariate methods, multivariate methods, as well as extensions of GSEA analysis, such as network-based GSEA, and single-sample GSEA. Finally, you will also learn downstream processing of GSEA results, including efficiently visualizing the massive GSEA results, clustering, and simplifying GSEA results via various methods. In the course, we will cover some other topics that are tightly related to GSEA analysis, such as multiple hypothesis testing. You will also learn how to implement GSEA methods completely from scratch in R.

The course is aimed at students and researchers with limited statistical knowledge and they should have a basic knowledge of R programming, e.g. basic data structures (vectors, data frames, lists).

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>) Best regards, Carlo

Carlo Pecoraro, Ph.D

Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

Online GenomeAnnotation Mar7-10

The Computational Biology Core at the University of Connecticut's Institute for Systems Genomics is offering a workshop on structural and functional genome annotation.

The workshop will cover basic concepts and walk through several strategies on a high performance computing cluster.

The goal is to familiarize attendees with the basic concepts and details of computational approaches for genome annotation. All code required to complete the full analysis will be provided in a public github repository, and session recordings will be available to all participants after the workshop.

The workshop will take place over 4 days for 3-4 hours

each day.

Dates: March 7-10 (4 days) Time: March 7: 8:30am-12pm (Eastern) March 8-10: 9.00am - 12.00pm Location: Online Cost: \$350/\$483USD for UConn affiliated/External attendees.

Workshop schedule: Day 1: Introduction to Linux and high performance computing. Day 2: Introduction to high throughput sequencing, genome assembly validation, file format basics, and repeats. Day 3: Alignments, RNA-Seq based annotation with BRAKER2, and functional annotation; Day 4: MAKER annotation, long read annotation with BRAKER2, and evaluation.

Registration:

To register, please follow this link: <https://forms.gle/daCLSmFtDhJQ7ndQA> <
https://forms.gle/gcJpnRZKAwPcgnxV9 >

Workshop FAQ:

Who should attend?

Anyone who wants to learn the fundamentals of genome annotation.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of the workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own computer and to install a few applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350/\$483USD for UConn affiliated/External attendees.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

Where is the workshop?

It will be held on Blackboard-Collaborate platform, and

will run from 9:00am to 12:00pm on the dates indicated.

How do I apply?

All registration is “first-come, first-served.” There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Do you offer scholarships or tuition waivers?

Yes. For each workshop we offer waivers to up to two attendees without other funding sources. Preference will be given to students from primarily undergraduate institutions, from countries classified by the World Bank as low or middle-income, and those from underrepresented groups. Applicants for waivers may submit a one paragraph justification to cbcsupport@uconn.edu. Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

For our other currently scheduled workshops, see here: <https://bioinformatics.uconn.edu/cbc-workshops/>
Noah Reid noah.reid@uconn.edu

Assistant Research Professor Institute for Systems Genomics University of Connecticut

“Reid, Noah” <noah.reid@uconn.edu>

Online GWAS May16-20

Dear all,

registration is now open for the 4th edition of the GWAS course: (<https://www.physalia-courses.org/courses-workshops/course49/>)

Dates: Online, May 16th-20th

This course will introduce students, researchers and professionals to the steps needed to build an analysis pipeline for Genome-Wide Association Studies (GWAS). The course will describe all the necessary steps involved in a typical GWAS study, which will then be used to build a reusable and reproducible bioinformatics pipeline.

It will include information useful for both beginners and more advanced users. We will start by introducing general concepts of GWAS and bioinformatics pipeline building, progressively describing all steps and putting there seamlessly together in a general workflow. There will be a mix of lectures and hands-on practical exercises using R, Unix command line and custom software.

Some basic understanding of R programming and Unix will be advantageous.

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physiacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online Metabarcoding Jun6-10

Dear all,

registration is now open for the 6th edition of the Physalia course “Metabarcoding”.

Dates: online, 6-10 June

Course website: <https://www.physalia-courses.org/courses-workshops/course30/> This course is designed for researchers and students with strong interests in applying novel high-throughput DNA sequencing technologies to answer questions in the area of biodiversity. The course will mainly focus on the analysis of phylogenetic markers to study bacterial, archaeal, and fungal assemblages in the environment, but the theoretical concepts and computational procedures can be equally applied to any taxonomic group or gene of interest.

After completing the course, the participants should be able to understand the potential and limitations of metabarcoding techniques as well as to process their own datasets to answer the questions under investigation.

Here is the full list of our courses and workshops: <https://www.physalia-courses.org/courses-workshops/> Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org mobile: +49 17645230846 Follow us on Twitter

“info@physalia-courses.org” <info@physalia-courses.org>

Online SingleCellRNAseq Jun6-10

Dear all, registration is now open for the 4th edition of the Physalia course “Single-cell RNA-seq analysis with R/Bioconductor”, which will be held online in June (6th-10th).

Course website: (<https://www.physalia-courses.org/courses-workshops/course18/>)

This course will introduce biologists and bioinformaticians to the field of single-cell RNA sequencing. We will cover a range of software and analysis workflows that extend over the spectrum from the best practices in the filtering scRNAseq data to the downstream analysis of cell clusters and temporal ordering. This course will help the attendees gain accurate insights in pre-processing, analysis and interpretation of scRNAseq data.

At the end of this course, you should be able to:

Understand the pros/cons of different single-cell RNA-seq methods
 Process and QC of scRNA-seq data
 Normalize scRNA-seq data
 Correct for batch effects
 Visualise the data and applying dimensionality reduction
 Perform cell clustering and annotation
 Perform differential expression analysis
 Infer pseudo-time and perform temporal differential expression

Here is the full list of our courses and workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
 info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Online SpeciesDistribution May9-13

Dear all,

registration is open for the 3rd edition of the Physalia course “Species distribution and ecological niche modelling in R”

Dates: May 9th-13th (Online)

Course website:(<https://www.physalia-courses.org/courses-workshops/course45/>)

This course will encompass the theory and practice of species distributions models (SDM) and ecological niche models (ENM), spanning the underlying concepts, methods, and applications. We will address the caveats and challenges of these models, and see how to make the most of their strengths while avoiding their most common pitfalls. Participants will build and validate models based on species occurrence data of their choice, and learn how to apply these models to a variety of purposes.

The course is aimed at students, researchers and practitioners at any career stage with an interest in building and applying species distribution and/or ecological niche models in a reproducible and automated way.

Here is the full list of our courses and workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
 info@physalia-courses.org mobile: +49 17645230846 Follow us on (<https://twitter.com/Physacourses>)

“info@physalia-courses.org” <info@physalia-courses.org>

Oxford StatisticalGenomics Jun19-24

Join us for an immersive week-long residential post-graduate summer school on Statistical Genomics < <https://www.conted.ox.ac.uk/courses/-oxford-statistical-genomics-summer-school?code=-O22I410SGS> > at St Hilda’s College Oxford, overlooking the River Cherwell and Christ Church Meadow, on 19th-24th June 2022.

This course aims to connect post-graduate and post-doctoral researchers from academia and industry with experts at Oxford’s Big Data Institute, Wellcome Centre for Human Genetics, and Department of Statistics.

Our friendly tutors, internationally recognised for their scientific expertise, will offer specialist instruction and hands-on computer practicals across five broad areas of Statistical Genomics: Next-generation Sequence Data

Analysis, Gene and Variant Association Testing, Genomics of Infectious Diseases, Genealogical Inference and Analysis, and Medical Genomics.

The course is aimed at trainee scientists actively engaged in statistical genomics research, who wish to expand their knowledge of concepts and techniques.

For more information including how to apply please visit: <https://www.conted.ox.ac.uk/courses/-oxford-statistical-genomics-summer-school?code=O22I410SGS> – Associate Professor Daniel Wilson Big Data Institute Robertson Fellow, Nuffield Dept. Population Health Director of Studies in Data Science, Dept. for Continuing Education University of Oxford Web: www.danielwilson.me.uk Daniel Wilson <daniel.wilson@bdi.ox.ac.uk>

Raleigh NorthCarolina EvolMedicineSummerInst May15-20

Applications are now open for the Triangle Center for Evolutionary Medicine (TriCEM)'s Evolutionary Medicine Summer Institute! The 2022 EMSI will be held May 15th through 20th at North Carolina State University in Raleigh, NC*.

EMSI provides training in evolutionary medicine to students, postdocs, and faculty from diverse fields, plus clinicians and other medical, veterinary, and public health practitioners. The goals of EMSI are to:

1. Introduce core evolutionary principles
2. Apply evolutionary perspectives to a wide range of topics (including infectious disease, microbial resistance, cancer, the microbiome, and more)
3. Provide training in computational methods used in evolutionary and ecological research
4. Foster new collaborations across the evolutionary sciences, human and veterinary medicine, and public health

Through lectures, hands-on computational exercises, and team-based learning projects, participants will gain the background and the tools to apply evolutionary biology to questions of medical and veterinary importance.

For more information and to apply, please visit the EMSI website: <https://sites.duke.edu/emsi>. Applications are due by Monday, March 7th, 2022.

If you have any questions, please feel free to contact Meredith Spence Beaulieu (meredith.spence.beaulieu@duke.edu).

*Note: We are currently planning for in-person, but virtual options are a possibility given the uncertainty around the ongoing pandemic. We encourage you to apply if you would be interested in attending in-person OR virtually! There is a question on the application to gauge your comfort/interest with these options.

“Meredith Spence Beaulieu, Ph.D.”
<meredith.spence.beaulieu@duke.edu>

Raleigh NorthCarolina EvolMedSummerInst May15-20

TWO WEEKS LEFT TO APPLY for the Triangle Center for Evolutionary Medicine (TriCEM)'s Evolutionary Medicine Summer Institute! The 2022 EMSI will be held May 15th through 20th at North Carolina State University in Raleigh, NC*.

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“Meredith Spence Beaulieu, Ph.D.”

<meredith.spence.beaulieu@duke.edu>

Sevilleta Natl Wildlife Refuge LTER Evo Working Group May 9-12

We are seeking postdoctoral and graduate student applicants from diverse backgrounds to participate in a fully funded working group focusing on exploring the role of evolutionary processes in long-term ecological research, with an emphasis on grassland plants. The aim of this working group is to facilitate collaborations between ecologists and evolutionary biologists by realizing the opportunity that Long-Term Ecological Research (LTER) sites provide for conducting eco-evolutionary research.

Biologists increasingly recognize that ecological and evolutionary processes are closely linked. This is particularly relevant in the context of global change, where environmental conditions may change rapidly, and species may adapt to the novel conditions in a comparable timeframe. Unfortunately, studies that examine the interactions and feedback loops between evolutionary and ecological processes, particularly in long-term ecological studies, are rare. The working group will address this problem by first identifying barriers that exist to developing evolutionary biology work at LTER sites and, second, identifying possible solutions. In doing so, the working group will develop a framework for how to best implement future eco-evolutionary research in a long-term ecological research context. Lastly, the main goal of this working group is to unite early-career ecologists and evolutionary biologists with postdoc and graduate students to create a new cohort of eco-evolutionary scientists!

The working group will be held at *Sevilleta National Wildlife Refuge LTER* < <https://unmsevilletafieldstation.wordpress.com/> > in La Joya, NM on *May 9th-12th, 2022*. We expect participants will arrive Sunday night (May 8th) and depart Friday morning (May 13th). *Travel to/from and accommodation at the UNM Sevilleta Field Station will be provided, and all meals **will be catered for the duration of the working group*. *There will be no costs for participants*. The format will be a daily morning plenary, followed by break-out focus groups, evening graduate and postdoc posters, and informal discussion. Please be aware that we will be abiding by CDC guidelines and requiring proof of vaccination to

attend in-person. Remote participation will also be available to those who cannot or do not feel comfortable attending in-person. Our goal is to hold a productive meeting where all feel safe and comfortable - as such, we will be monitoring the ever-changing situation and making changes when necessary!

The organizers of the working group greatly value diversity, equality of opportunity, and human dignity. *Scientists who are LGBTQ+, Black, Hispanic, Latin(o/a), Indigenous, Asian, Asian American, Pacific Islander, two or more races/ethnicities, or veterans are especially encouraged to apply*. To apply, email Jenny Cocciardi (jenny.cocciardi@jhu.edu) with the subject line "Evo-LTER Working Group Application" with; 1) a copy of your CV, 2) an abstract describing research that you would like to present on at the working group (limit 300 words), and, 3) a one-page diversity, equity, and inclusion statement describing your experiences and commitment to advancing diversity, equity, and inclusion in STEM. The research may be in the fields spanning ecology and evolutionary biology, but preferably with an element of both (including, but not limited to; plant eco-evo-devo biology, global change ecology, adaptation to climate change, phenology, plant physiology and morphology, phenotypic plasticity, quantitative genetics and genomics, community ecology, population genetics, etc.). *Applications are due March 4th* and applicants will be notified of the decision to attend by March 14th, 2022. Undergraduate students who have conducted research that they feel fits well with the working group's main aims may also apply. Applicants are encouraged to email Jenny Cocciardi (jenny.cocciardi@jhu.edu) with any questions and inquiries on the working group!

Jennifer Cocciardi <jenny.cocciardi@gmail.com>

Sucre Bolivia GenPob Jul16-25

The Gen-Pob.org workshop will resume in Sucre, Bolivia from 16 to 25 July 2022, at the Universidad Mayor Real y Pontificia de San Francisco Xavier de Chuquisaca < <https://www.usfx.bo/> >. This is an 8-day workshop in Bolivia's oldest and historical capital city providing instruction in population genomic theory and bioinformatics exercises related to the analysis of RAD-Seq data. Instructors this year include Dr. Kevin McCracken (kevin.g.mccracken@gmail.com) from the University of Miami and Dr. Jeff Peters from Wright State University (jeffrey.peters@wright.edu).

Details about the workshop can be accessed at: www.gen-pob.org There is no cost to the workshop, but registration is required by 1 June.

To apply please send the following to: cgenpop@gmail.com

1. Name
2. Affiliation
3. Email & telephone
4. Proof of vaccination against COVID19
5. 2-page CV or resume

Only about 30 positions are available.

Kevin McCracken <kevin.g.mccracken@gmail.com>
kevin.g.mccracken@gmail.com

Venice EvoDevoCharacters

Aug22-26

Dear all,

Registration is now open for:

*** Venice Summer School 2022 - The character concept in metabolic, physiological, and developmental evolution

*** Aug 26 - Aug 30, 2022, Centro Culturale Don Orione Artigianelli, Venice, IT

Organisers: Johannes Jaeger, Complexity Science Hub (CSH), Vienna, AT, jaeger@csh.ac.at
 Berta Verd, University of Cambridge, UK, berta.verdfernandez@zoo.ox.ac.uk
 James DiFrisco, KU Leuven, BE, james.difrisco@kuleuven.be

Teaching Panel:

Graham Budd, University of Uppsala, SE

James DiFrisco, KU Leuven, BE
 Scott Gilbert, Swarthmore College, USA
 Thomas Hansen, University of Oslo, NO

Johannes Jaeger, Complexity Science Hub (CSH) Vienna, AT

Antónia Monteiro, National University of Singapore, SG
 Edwige Moyroud, Sainsbury Laboratory, Cambridge, UK
 Laura Nuño de la Rosa, Universidad Complutense de Madrid, ES

Mihaela Pavlicev, University of Vienna, AT

Emilia Santos, University of Cambridge, UK

Berta Verd, University of Oxford, UK

Günter Wagner, Yale University, USA

Course description:

The concept of “characters” lies at the heart of many central issues in evolutionary biology. Characters distinguish taxa, cause fitness differences, and generally are the fundamental units of comparison for studies of phenotypic evolution. Historically, the concept of characters originated in morphology and comparative anatomy, where it was intimately connected to the issue of homology. At the same time, characters in evolutionary genetics have been understood as the effective dimensions along which a population is evolving. Both the more historical and functional conceptions of biological characters presuppose that phenotypes are modular enough that it makes sense to compare or model parts of organisms directly rather than whole organisms. Today, the notion of characters or traits is increasingly used to describe dynamic lower-level phenomena such as metabolic, physiological, and developmental processes. This raises a number of challenging but interesting conceptual issues. How can we define characters or traits when the object under study is a process? Is it possible to modularize regulatory mechanisms into quasi-independent characters? What light can contemporary systems biology shed on the partitioning of the phenotype into characters? We do not yet have answers to these important questions. We have gathered a select group of empirical investigators and theoreticians from the fields of biochemistry, physiology, developmental biology, and evolutionary biology together with mathematical modelers, and philosophers of biology to discuss how characters can be defined, identified, and characterized in the age of integrative systems biology. Is it still useful to talk about characters? And if so, what should the concept incorporate to guide research in the right direction? Evolutionary biology lies at the very heart of biology. Therefore, this topic is relevant far beyond its boundaries. Properly tackling it requires the kind of transdisciplinary exchange of ideas and approaches we are planning to implement in this course. The summer school is mainly aimed at early-stage (PhD or postdoc) empirical and theoretical researchers with a general background and/or interest in developmental and/or evolutionary biology. More senior investigators are welcome to apply as well. Exceptions can be made for motivated masters students. Participants of previous Venice Summer Schools in Evo-Devo are expressly encouraged to reapply as this course has an entirely different topic than previous editions. The course will equip participants with the conceptual tools to engage in a productive discussion of the notion of “characters,” and to relate this notion to their own research questions

and explanations.

Detailed programme and further information: <https://meetings.embo.org/event/21-evolution-venice> *** Registration is open on EMBO's course website:

<https://meetings.embo.org/event/21-evolution-venice>
Applicants are required to submit an academic CV, and a motivation letter. Optionally, also add an abstract if you would like to present your own work as an elevator pitch on the first day of the course.

*** Application/abstract submission deadline: Apr 15, 2022. Applicants will be notified whether they have been accepted (or not) by May 15, 2022. The payment deadline for successful applicants is Jun 30, 2022.

Follow @VeniceEvoDevo on Twitter for updates.

On behalf of all the organisers, Yogi Jaeger

Dr. Johannes Jaeger Freelance Researcher, Philosopher & Educator Associate Faculty, Complexity Science Hub (CSH), Vienna

Johannes Jaeger <yoginho@gmail.com>

WoodsHole MolecularEvolution May27-Jun6

The 2022 Workshop on Molecular Evolution at the Marine Biological Laboratory in Woods Hole, Massachusetts, USA, will be held *** MAY 27 to JUNE 6 *** (note that this is earlier than past years).

The deadline for applications *** has been extended to MARCH 7, 2022 *** : see <https://www.mbl.edu/education/courses/workshop-on-molecular-evolution/>
Founded in 1988, the Workshop on Molecular Evolution is the longest-running workshop of its kind. The Workshop is the premier program for integrating the methods, theory, and applications of molecular phylogenetics,

statistical genetics, molecular evolution, and related disciplines. Students work closely with internationally-recognized scientists, receiving: (i) high-level instruction in the principles of molecular evolution, phylogenetic inference, and evolutionary genomics; (ii) advanced training in statistical methods best suited to modern datasets; and (iii) hands-on experience with the latest software tools (often from the authors of the programs they are using). The material is delivered via lectures, discussions, and bioinformatic exercises motivated by contemporary topics in molecular evolution. A hallmark of this workshop is the direct interaction between students and field-leading scientists. The workshop serves graduate students, postdocs, and established faculty from around the world seeking to apply the principles of molecular evolution to questions of both basic and applied biological sciences. A priority of this workshop is to foster an environment where students can learn from each other as well from the course faculty.

As the course progresses, participants learn how to use the following software to address questions concerning the phylogeny (including phylogenetic networks), divergence times, effects of selection, and migration: ASTRAL, FigTree, IQTree, MIGRATE, MrBayes, RevBayes, PAML, PAUP*, RAxML, and SNaQ. Students will have the opportunity to work with software on their own laptops as well as receive training on how to use the same programs on a computer cluster.

In 2022 the course instructors include Peter Beerli, Joe Bielawski, Jeremy Brown, Minh Bui, Belinda Chang, Scott Edwards, Deise Goncalves, Tracy Heath, John Huelsenbeck, Lacey Knowles, Aki Laruson, Paul Lewis, Emily Jane McTavish, Claudia Solis-Lemus, Ed Susko, David Swofford, Katie Taylor, and Anne Yoder.

More information on the Workshop is available on the course website: <https://molevolworkshop.github.io> For further information, please contact the Workshop Co-Directors:

Paul Lewis and Peter Beerli (moledirector@mbl.edu)

“Lewis, Paul” <paul.lewis@uconn.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 EvoDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvoDir direct them to the email `evodir@evol.biology.McMaster.CA`. Do not include encoded attachments and do not send it as Word files, as HTML files, as \LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.