
E v o l D i r

February 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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ColdSpringHarborLab BiologyOfGenomes May10-14

From: Cold Spring Harbor Laboratory Meetings & Courses meetmail@cshl.edu Subject: 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 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 Jenny Tung, Duke University ...more speakers to be announced! 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 Unsubscribe golding@mcmaster.ca Update Profile | Constant Contact Data Notice Sent by meetmail@cshl.edu

meetmail@cshl.edu

<https://www.plep-meetings.com/> plep <plep@target-conferences.com>

Israel Evolution May8-12

POTENTIAL & LIMITATIONS OF EVOLUTIONARY PROCESSES CONFERENCE

8-12 May, 2022 | Israel

The Scientific Committee is pleased to invite authors to submit their abstracts for oral or poster presentations.

For abstracts to be considered, the presenting author needs to APPLY TO REGISTER

in conjunction with abstract submission.

The deadline for abstract submission is February 1, 2022.

CLICK HERE TO SUBMIT YOUR ABSTRACT

Oral Presentations: 15-minute time slot (including discussion)

Posters: poster size 200 cm (height) x 90 cm (width)

SESSION TOPICS

Fine-tuning of the universe Origin of Life: Pre-biotic chemistry

Origin of Life: Lipids

Origin & Fine-tuning of the Genetic Code

Pathways to Functional Islands in Protein Sequence Space

Evolution of Novel Proteins by Modification

Evolutionary genetics

Fine-tuning of Biological Systems

New approaches in Evolutionary Theory

The meeting will take place on 8-12 May, 2022, at Golden Crown Hotel and Convention Center, located in the Lower Galilee overlooking the Jezreel valley, near Nazareth. Please see the meeting website for continuous updates: www.plep-meetings.com We hope to see you in May 2022.

Best wishes,

Tony Futerman, Siegfried Scherer, Russ Carlson and Joel Sussman

CLICK HERE TO SUBMIT YOUR ABSTRACT

Target Conferences Ltd.

65 Derech Menachem Begin PO Box 51227, Tel Aviv 6713818 Tel: +972 3 5175150 x 616 Fax: +972 3 5175155

Online CIGENE Feb

Hi all,

The CIGENE seminar series will start up in mid-February, with speakers representing different areas within genomics, microbiology and evolution. We are very pleased with the program and look forward to many interesting presentations in the upcoming months.

Please visit our seminar page for more info. <https://cigene.no/cigene-seminar-series/> We are hiring a post-doc in gene editing! <https://drive.google.com/file/d/1dfd2vmxFldFSXsvUKVdVhcIMpSG82XNV/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>

Online Genotype-Phenotype Mar2-4

Hi all,

All the best wishes, health, and success for 2022!

We would like to start the new year with the announcement of the 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.

The meeting will be held online from March 2 to 4, 2022 and we assembled an exciting panel of speakers including SONJA GRATH (LMU München), HANH VU (EMBL Heidelberg), LUISA PALLARES (FML Tübingen), PAVEL TOMANCAK (MPI CBG Dresden) and NIKOLA-MICHAEL PRPIC-SCHäPER (JLU Giessen).

Participation is free of charge, but you need to register to receive the access information.

The invited speakers cover a broad range of topics, and we wish to bring together researchers from different disciplines and at different career levels to foster discussions

about future directions in establishing associations between genotypes and phenotypes. We planned plenty of space for contributed talks which we offer in a short (~5-8 minutes) and a longer (~10-15 minutes) format. Please encourage your undergraduate and graduate students to present their projects!

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/> Please forward this announcement to interested colleagues.

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

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“Posnien, Nico” <nposnie@gwdg.de> “Posnien, Nico” <nposnie@gwdg.de>

Online Plant Evolution Feb9-10

Dear all,

we are pleased to announce a series of webinars for the Conference of Young Botanists (CYBO), starting from January 2022, and culminating with the in-person meeting on 9-10 February 2023 in Bozen (Italy).

CYBO is a conference aimed primarily at PhD students and postdocs, with the goal of creating an opportunity for dialogue and networking among young researchers.

The seminars will be held on the Microsoft Teams platform, participation is free of charge, after registration to each seminar on <https://www.unibz.it/cybo>. A certificate of attendance will be issued after each seminar.

The seminar schedule can be found on the web pages <https://www.unibz.it/cybo> and <https://www.actaplantarum.org/cybo> The event is sponsored by the Italian Botanical Society, the Italian Lichenological Society and the Italian Vegetation Science Society.

If you would like to receive updates on seminars and news about future Cybo events, register here newsletter < <https://forms.gle/VftT1hzedouFBZJ36> > Follow us on Facebook < <https://www.facebook.com/-CYBO-2020-100938547954214> > Twitter < https://twitter.com/cybo_conference > and Instagram < https://www.instagram.com/cybo_conference/?utm_medium=copy_link > Please, spread the news!

The Organizing Committee

- Maria Guerrina PhD Università $\frac{1}{2}$ di Genova DISTAV Corso Europa 26 I - 16132 GENOVA (Italy) maria.guerrina@edu.unige.it +39 010 3358056

Maria Guerrina <maria.guerrina@edu.unige.it> Maria Guerrina <maria.guerrina@edu.unige.it>

Prague Chromosomal Speciation Aug14-19 Call Abstracts

Dear all,

We are very happy to announce abstract submission is now open for our ESEB 2022 symposium “Revisiting chromosomal speciation in the genomic era”. The meeting will take place in Prague, Czech Republic from August 14-19, 2022 and abstracts can be submitted here <https://www.eseb2022.cz/en/call-for-abstracts-page>. The deadline is April 15, 2022.

Our symposium asks to what extent major chromosomal rearrangements may act as intrinsic barriers to gene flow, especially in the context of recent genomic advancements. Are they by themselves sufficient to result in speciation, or do they promote speciation by interacting with other barriers? How do chromosomal rearrangements evolve in the first place and why are some taxonomic groups more variable in their karyotype than others? Do higher rates of chromosomal evolution result in higher rates of speciation? Do the evolutionary processes and mechanisms differ between species whose chromosomes have localised centromeres, and those who are holocentric? Do chromosomal rearrangements have a different evolutionary impact depending on whether autosomes or sex chromosomes are involved?

We aim to address these open questions from a broad perspective and aim to bring together both theoretical and empirical researchers.

Our keynote speakers are Marcial Escudero (University of Seville) and Petr Nguyen (University of South

Bohemia).

We are looking forward to your abstracts and to meeting you in Prague!

For questions, please contact us at kay.lucek@unibas.ch and hannah.augustijnen@unibas.ch.

Sincerely,

Kay Lucek & Hannah Augustijnen

Kay Lucek <kay.lucek@unibas.ch>

Prague EcolEvolChemistryPlants Aug14-19

Dear all,

Abstract submission is now open for our ESEB 2022 symposium, “Evolutionary ecology of chemically-mediated species interactions in plants”. The meeting will be held in Prague, Czech Republic from August 14-19.

Interactions between plants and other organisms occur in every terrestrial biome and have long been a focal point of the field of evolutionary ecology. These interactions have spurred the spectacular structural and chemical complexity in flowering plants, such as floral volatiles that attract pollinators and leaf metabolites that deter herbivores. While most research to date has considered how these traits structure interactions among species and mediate reproductive isolation, a critical prerequisite is the existence of intraspecific variation in chemical traits. Recent advances in analytical and computational methods have allowed the field to move towards untargeted metabolomics approaches, while facilitating rigorous investigations of long-standing questions. By investigating intraspecific variation across populations, tissue types, or time points, studies have begun to identify how genomic and environmental factors shape the diversification of these traits and connect intraspecific variation to larger scale macroevolutionary studies. The purpose of this symposium is to bring together researchers studying variation in plant mediated interactions from across scales of biological organization from between individuals, populations and species. This symposium will attract researchers across career stages and study systems who are increasing our understanding plant species interactions through studying patterns or drivers of variation in chemical traits.

The two keynote speakers for the session are Dr. James Buckley (University of Plymouth) and Dr. Marjorie

Weber (Michigan State University).

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.

For questions, please contact us at katherine.eisen@biol.lu.se and amkals@utu.fi.

Sincerely,

Kate Eisen (Lund University) and Aino Kalske (University of Turku)

Katherine Eisen, PhD Postdoc, EPII group Biodiversity Unit, Department of Biology Lund University katherine.eisen@biol.lu.se

Katherine Eisen <katherine.eisen@biol.lu.se>

Prague ESEB2022 SexLinkedTraits Aug14-19

Dear Evoldir Community,

We are very happy to announce our ESEB 2022 Symposium “TUG OF WAR BETWEEN THE SEXES: THE TRANSCRIPTOMIC ARCHITECTURE OF SEX-LINKED TRAITS”. ESEB2022 will take place in Prague (Czech Republic), 14-19th of August 2022 <https://www.eseb2022.cz/>. Abstract submissions is now open <https://www.eseb2022.cz/en/call-for-abstracts-page> (deadline: 15 April 2022).

SYMPOSIUM DESCRIPTION: Sexually dimorphic- and in their most drastic form- sex-limited phenotypes result from sexually antagonistic selection and are largely realized via differential gene expression. Since the sexes share a genome, the same set of genes can be subject to different, even opposing, selection in the two sexes. In this symposium, we investigate the transcriptomic architecture of sex-linked traits including morphological, physiological as well as behavioral sex-differences. We encourage submissions that apply new sequencing

technologies, functional assays and analyses that contribute to our understanding of how sex-linked traits are build up, how they evolve under particular selective constraints and how sexual conflict is traceable and probably resolved on the molecular level. This symposium will target core questions of evolutionary biology such as the interplay of natural and sexual selection and the costs of non-adaptive trait evolution. Contributions will shed light on evolutionary paths of genes that have a different function in each sex and aims to tackle how sex-specific traits are build up from a common genome. With this topic, the symposium will contribute to a next step in evolutionary biology aiming to connect models of sequence evolution and predictions of the power of selective forces with functional data. The invited speakers for this symposium are Tanja Schwander (University of Lausanne) and Armin Moczek (Indiana University Bloomington)

ORGANIZERS Astrid Bohne(Bonn, Germany;a.boehne@leibniz-zfmk.de) Leon Hilgers (Frankfurt, Germany;leon.hilgers@senckenberg.de)

TRAVEL AND EQUAL OPPORTUNITY AWARDS For information on travel and equal opportunity attendance-aid grants see here: <https://eseb.org/prizes-funding/conference-travel-award/> <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> We are looking forward to your abstracts and to meeting you in Prague Astrid & Leon

Dr. Astrid Bohne Center for Molecular Biodiversity Research ZFMK - Zoological Research Museum Alexander Koenig

LIB - Leibniz Institute for the Analysis of Biodiversity Change

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Bohne Astrid <A.Boehne@leibniz-zfmk.de>

Prague ESEB AdaptionGenomics Aug14-19 CallAbstracts

Dear Colleagues,

We are very happy to announce our ESEB 2022 Symposium “PROGRESS AND PROSPECTS IN ADAPTATION GENOMICS”.

WHERE & WHEN? The symposium will be held at the ESEB 2022 conference in Prague (Czech Republic), 14-19 August 2022 (<https://www.eseb2022.cz/>).

ABSTRACT SUBMISSIONS Abstract submissions is now open at: <https://www.eseb2022.cz/en/call-for-abstracts-page> (deadline: 15 April 2022).

THE TOPIC The overarching aim of our symposium is to bring together evolutionary biologists interested in using genomics to understand adaptive processes and evolutionary history and to discuss recent progress and future prospects in this field. Population genetics deals with three fundamental questions: (1) How much genetic variation exists in populations? (2) How is this variation maintained? (3) What is the genetic basis of evolutionary change? While population genomics has answered the first question, the second and third remain incompletely understood. We plan an exciting diversity of talks on cutting-edge topics in adaptation genomics, including on the importance of temporally and spatially varying selection in maintaining variation; on the importance of history, hybridization and introgression in patterning such variation; on appropriate null models of evolutionary change that incorporate demography; on selective sweeps versus polygenic adaptation; and on identifying and validating targets of selection. We encourage contributions from both empirical and statistical / theoretical population geneticists, especially from early career researchers. Apart from fostering in-depth discussion, a tangible outcome of this symposium will be a targeted review submitted to JEB. This symposium is organized on behalf of the European Drosophila Population Genomics Consortium (DrosEU; <https://droseu.net/>), a consortium funded by a ESEB Special Topics Network (STN) grant.

INVITED SPEAKERS Nicola Nadeau (University of Sheffield) Konrad Lohse (University of Edinburgh)

ORGANIZERS Thomas Flatt (Fribourg, Switzerland) Josefa González (Barcelona, Spain) Alan Bergland (Charlottesville, USA)

TRAVEL AND EQUAL OPPORTUNITY AWARDS For information on travel and equal opportunity attendance-aid grants see here: <https://eseb.org/prizes-funding/conference-travel-award/> <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> CONTACT Thomas Flatt (thomas.flatt@unifr.ch) Josefa González (josefa.gonzalez@ibe.upf-csic.es) Alan Bergland (aob2x@virginia.edu)

We are looking forward to your abstract submissions and to seeing you in Prague! Thomas, Josefa and Alan.

FLATT Thomas <thomas.flatt@unifr.ch>

Prague ESEB Aug14-19 AbstractSubmissionOpen

ESEB Congress 2022 - ABSTRACT SUBMISSION OPEN!

The European Society for Evolutionary Biology invites you to submit your abstract for the next congress from 14-19 August 2022 in Prague, Czech Republic.

The list of symposia is available at <https://www.eseb2022.cz/en/symposia> Details about submitting an abstract are available at <https://www.eseb2022.cz/en/call-for-abstracts-page> Please note the following dates:

February 2022 - On-line registration opens 15 April 2022
- Abstract submission closes 10 May 2022 - Communication of selection of contributed talks/posters 15 June 2022 - Early bird registration closes

For further information, please visit the congress website at <https://www.eseb2022.cz> Dr. Ute Moniatte | Email: office@eseb.org European Society for Evolutionary Biology | www.eseb.org ESEB Office <office@eseb.org>

Prague ESEB EvolAntibioticResistance Aug14-19

We are very happy to announce our ESEB 2022 Symposium “Evolution of antibiotic resistance: from lab to clinic” (S36).

WHERE AND WHEN 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/>).

MOTIVATION Laboratory evolution experiments are a powerful tool for addressing fundamental evolutionary questions under controlled conditions. They are also increasingly used to address applied problems, such as the evolution and spread of antibiotic resistance.

These studies have revealed important novel insights about the mechanisms and evolvability of antibiotic resistance and their dependence on bacterial stress-responses, metabolism and drug combinations, which may inform new therapies. However, results from laboratory evolution experiments under artificial conditions are often not directly relevant for the clinical problem of antibiotic resistance, due to differences between laboratory and clinical strains and conditions. Researchers have therefore begun to study the evolution of antibiotic resistance in animals and patients. In this symposium, we bring together researchers working on both sides of the ‘ $\frac{1}{2}$ laboratory-clinic divide’, as well as those that start to bridge the gap. Our specific aim is to identify pertinent questions and caveats in the translation between lab experiments and the clinical problem of antibiotic resistance. How can laboratory experiments under artificial conditions complement analyses in animals and patients and inform new drug therapies? A more general aim of our symposium is to discuss the relevance of evolutionary biology for our health and wellbeing.

INVITED SPEAKERS Alvaro San Millan (Centro Nacional de Biotecnología ’ CSIC, Madrid) Robert A. Bonomo (Case Western Reserve University, USA)

ABSTRACT SUBMISSIONS Abstracts can be submitted at <https://www.eseb2022.cz/en/call-for-abstracts-page> until April 15th 2022.

ORGANISERS Arjan de Visser (Wageningen University, arjan.devisser@wur.nl) Jan Michiels (KU Leuven, jan.michiels@kuleuven.be) Dan Andersson (Uppsala U, dan.andersson@imbim.uu.se)

We look forward to your abstracts and to meeting you in Prague!

Regards,

Arjan, Jan and Dan

“Visser, Arjan de” <arjan.devisser@wur.nl> “Visser, Arjan de” <arjan.devisser@wur.nl>

Prague ESEB EvolChangingEnvironments 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

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Prague ESEB Integrative Biogeography Aug14-19

Dear all,

We are excited to welcome submissions to our symposium at ESEB 2022:

* S08. INTEGRATIVE BIOGEOGRAPHY: PAST, PRESENT, FUTURE *

Biogeography, the distribution of species over space and time, is a dynamic field influenced by geology, ecology, evolution and the environment and it requires truly integrative investigation. Biogeographic processes are intimately linked with evolutionary change through vicariance and peripatry, gene flow, drift, and ecological opportunity arising during colonization and promoting adaptive radiations. Moreover, researchers are increasingly uncovering ways that a species' biogeographic history can affect its potential for evolutionary rescue under contemporary change. Thus resolving biogeographical patterns and associated evolutionary dynamics, both within and among species, is essential for understanding mechanisms of species adaptation and for predicting future eco-evolutionary dynamics against the backdrop of environmental change. Recent work integrates information from paleontological and phylogenetic data, genomics, experimentation, and modeling to reconstruct ancestral ranges, investigate evolutionary consequences of contemporary distributional shifts, and predict future resilience and spread. These diverse approaches ultimately provide a holistic understanding of the micro- and macroevolutionary causes and consequences of biogeography. In this symposium, we aim to showcase these advances by bringing together researchers who use integrative methods to investigate reciprocal effects of biogeography and evolutionary processes across temporal and spatial scales. We will also use this opportunity to discuss future ideas and perspectives for the field.

INVITED SPEAKERS Sarah Diamond (Case Western Reserve University) Leonel Herrera Alsina (University of Aberdeen) Michael Singer (Plymouth University)

WHEN & WHERE ESEB 2022 will be held in Prague (Czech Republic), August 14-19. <https://www.eseb2022.cz/> ABSTRACT SUBMISSION Abstracts can be submitted here until *April 15*: <https://www.eseb2022.cz/en/call-for-abstracts-page> TRAVEL AND EQUAL OPPORTUNITY AWARDS

ESEB offers travel and equal opportunity grants to support conference attendance here: <https://eseb.org/prizes-funding/conference-travel-award/> <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> ORGANIZERS Kara Layton (kara.layton@abdn.ac.uk) Lesley Lancaster (lesleylancaster@abdn.ac.uk) Nicky Lustenhouwer (nlustenh@ucsc.edu)

We are looking forward to meeting you in Prague!

Kara, Lesley, and Nicky

Dr. Nicky Lustenhouwer Research Associate Dept. of Ecology and Evolutionary Biology, UC Santa Cruz nlustenh@ucsc.edu Time zone: UK (GMT)

Nicky Lustenhouwer <nlustenh@ucsc.edu>

Prague ESEB Limits Adaptation Aug14-19 Call Abstracts

Dear Colleagues,

We are very happy to announce our ESEB 2022 Symposium “*LIMITS TO ADAPTATION: LINKING EVOLUTION, ECOLOGY AND GENETICS*” (S31).

WHERE AND WHEN The symposium will be held at the Congress of the European Society for Evolutionary Biology in Prague, $i_{\frac{1}{2}}$ 14-19 August 2022 (<https://www.eseb2022.cz/>).

ABSTRACT Adaptation to environmental change has been studied for decades, yet adaptation and maladaptation in nature are still only partially understood. One probable reason for this is that the factors limiting adaptation ‘ demography, genetic constraints, ecological instability, etc. ’ are mainly studied in isolation. In real adaptive processes, however, these evolutionary constraints occur and interact simultaneously. Focusing on evolution, ecology, and genetics independently can therefore give a biased view of the adaptive process. This symposium aims to improve our understanding of adaptation to environmental change by synthesizing and linking recent studies on multiple evolutionary constraints. We welcome empirical and theoretical studies: - that examine single constraints on adaptation; - that test or discover the effects of interactions between constraints. Limits to adaptation are a crucial aspect of evolutionary responses to any natural or anthropogenic change. Because research is currently scattered across disciplines, we hope that this symposium will be an

opportunity to unite researchers studying e.g. ecological specialization, evolutionary rescue, and eco-evolutionary dynamics. We will synthesize our understanding of interacting evolutionary constraints and stimulate new integrative research.

INVITED SPEAKERS Patrik Nosil (Centre d’Ecologie Fonctionnelle et Evolutive, Montpellier, France; <https://www.cefe.cnrs.fr/fr/recherche/ee/gee/800-c/3615-patrik-nosil>) Hildegard Uecker (MPI for Evol. Biol., Plon, Germany; <http://web.evolbio.mpg.de/~uecker/>)

ABSTRACT SUBMISSIONS Abstracts can be submitted at <https://www.eseb2022.cz/en/call-for-abstracts-page> $i_{\frac{1}{2}}$ (S31) until April 15th 2022.

TRAVEL AND EQUAL OPPORTUNITY AWARDS Please see <https://eseb.org/prizes-funding/conference-travel-award/> $i_{\frac{1}{2}}$ and <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> *ORGANISERS* Laure Olazcuaga (Colorado State University, laure.olazcuaga@colostate.edu) Eva J.P. Lievens (University of Konstanz, eva.lievens@uni.konstanz-de)

We look forward to your abstracts and to meeting you $i_{\frac{1}{2}}$ in Prague! Regards,

Laure and Eva

olaz.laure@hotmail.fr olaz.laure@hotmail.fr

Prague ESEB Rapid Evolution Aug14-19

Dear colleagues,

Our symposium S12 “Resurrection ecology as a tool for the study of rapid evolution” at the ESEB 2022 conference is now open for submissions.

link for submissions and other key information are below.

Invited speakers: Niek Scheepens, Goethe-Universität Frankfurt, Germany Luc De Meester, KU Leuven, Belgium

Abstract

It is now accepted that rapid evolution (within a dozen generations) can occur, contrary to the classical Darwinian view that assumes slow pace of evolution. Rapid evolution is particularly frequent in response to contemporary anthropogenic modification of the environment

(e.g. climate change, pollution), although demonstrating its adaptive character remains challenging.

Resurrection ecology (RE) is an inventive approach to study evolution based on the ancestral populations reviving (decades old) from dormant forms (seeds, spores, cysts). Comparing ancestral and current genotypes is a powerful methodology for demonstrating adaptive rapid evolution, although often limited by the fortuitous availability of ancestral material in sediments or seed banks. Being at its beginnings, it is important that good RE practices are established to set up the premises for future studies.

This symposium covers various challenges and innovations of RE: 1) practical issues such as constituting or recovering appropriate propagule banks, their conservation, and the limits of available model organisms in relation to their life history traits, 2) analytical methodology (population and quantitative genetics) disentangling selective from stochastic evolutionary processes, and 3) case studies in various organisms illustrating the power of RE to demonstrate rapid evolution. We thus aim at providing insights into RE possibilities, but also inspiring actions for future RE studies.

Abstract submission deadline: 15. April 2022

Registration opens: February 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/> For any further questions, contact bojana.stojanova@osu.cz or pierre-olivier.cheptou@cefe.cnrs.fr

Sincerely,

Bojana Stojanova, Ostrava University, Czech Republic
Pierre-Olivier Cheptou, CEFE-CNRS, Montpellier, France
AneÅka EliÅova, Ostrava University, Czech Republic

Bojana S <bojana.stojanova@gmail.com>

Prague MatingSystem Aug14-19 CallForAbstract

Dear all,

Our ESEB 2022 symposium, “The Evolutionary Ecology of Mating Systems”, is now open for submissions (see

<https://www.eseb2022.cz> for further details).

Mating system research has been the subject of both evolutionary (e.g., how outcrossing and sex promote more efficient selection) and ecological studies (e.g., plant-pollinator interactions, studies of species invasiveness). Nevertheless, interactions between the two fields remain rare, despite recent approaches that blur traditional boundaries. This symposium will unite speakers from different disciplines to facilitate ideas on how to successfully integrate both ecological and evolutionary approaches into the study of mating systems, and discuss what challenges need to be overcome.

The meeting will be held in in Prague, Czech Republic during the 14-19 August. The two keynote speakers are Dr Diala Abu Awad (Universite Paris-Saclay) and Prof. Laura Galloway (The University of Virginia).

ESEB also proposes a grant in order to ensure equal opportunities. The grant aims to achieve this by increasing the attendance of underrepresented groups, primarily, but not solely, caregiving women (who due to higher costs of childcare are often prevented from attending)*, *through positive discrimination. The grant provides stipends of financial aid for scientists to help with the additional costs borne privately due to responsibilities for dependents when attending the meetings. The stipend will contribute to covering expenses for care of dependents, but also for travel. See <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> for further details.

We invite all interested contributors to submit their abstracts!

For questions, please contact us at m.hartfield@ed.ac.uk and josselin.clo@gmail.com.

Sincerely,

Matthew Hartfield (The University of Edinburgh) & Josselin Clo (Charles University, Prague).

CLO Josselin <josselincl@gmail.com>

Prague PhenotypicPlasticity Aug14-19 CallAbstracts

Dear colleagues,

Announcing ESEB 2022 Symposium (S22)

*PHENOTYPIC PLASTICITY’S IMPORTANCE IN

EVOLUTION: SAME OLD DOG OR NEW TRICKS?
 *We are welcoming submissions for our symposium at the Congress of the European Society for Evolutionary Biology < <https://www.eseb2022.cz> > in Prague (*August 14-19 2022*). Why old dogs and new tricks? See abstract below! The symposium is focused on making progress resolving controversy about potential or realised evolutionary consequences of phenotypic plasticity. We encourage empirical and theoretical talks on that topic and look forward to a diversity of study systems, methodological approaches, and speakers. **

Symposium S22 < <https://www.eseb2022.cz/en/-symposia> >: Phenotypic plasticity's importance in evolution: Same old dog or new tricks?

The role of phenotypic plasticity in evolution has been debated for over a century, but there is still no consensus about its general effects on processes such as adaptation and speciation, or more importantly, whether plasticity's causal impact on the evolutionary process is comparable to factors such as direct environmental change, ecology, selection, genetic mutation, etc. Arguments for a strong role in evolution have been given renewed attention recently, and form an important basis for calls to "extend" basic evolutionary theory. However, these ideas have attracted considerable criticism. Is the substantial research attention paid to the role of plasticity in evolution warranted by its actual importance? We will address this question by undertaking a critical synthesis based on recent theoretical advances and empirical findings. With this symposium we will bring together scientists studying evolutionary causes and consequences of phenotypic plasticity from a wide variety of research traditions, with emphasis on narrowing the data-theory gap. The symposium and a potential associated target review in *Journal of Evolutionary Biology* are intended to re-focus this subfield of evolutionary biology, and identify research priorities for the future that capitalize on advances in genetics, behaviour and theoretical modelling.

INVITED SPEAKERS We are delighted to announce our symposium speakers: *Amanda Bretman* < <https://biologicalsciences.leeds.ac.uk/school-of-biology/staff/36/dr-amanda-bretman> > (University of Leeds, UK) and *Luis-Miguel Chevin* < <https://www.cefe.cnrs.fr/en/research/evolutionary-ecology/genetique-et-ecologie-evolutive-3/800-french-recherche/ee/gee/c/474-luis-miguel-chevin> > (CEFÉ, Montpellier, France).

ABSTRACT SUBMISSION Abstracts can be submitted here < <https://www.eseb2022.cz/en/call-for-abstracts-page> >. The deadline for abstract submission is *April 15th 2022*. Feel free to contact Nathan Bai-

ley (nwb3@st-andrews.ac.uk) or Camille Desjonquères (cdesjonqu@gmail.com) if you have any questions regarding the symposium.

TRAVEL AND AID GRANTS Information on student and ECR travel stipends is here < <https://eseb.org/prizes-funding/conference-travel-award/> >. Information on Congress Attendance Aid Grants can be found here < <https://eseb.org/prizes-funding/equal-opportunities-initiative/congress-attendance-aid-grant/> >.

All the best, Nathan and Camille

Camille Desjonquères Postdoctoral fellow, University of Wisconsin-Milwaukee and University of St Andrews
 Personal website:<https://desjonqu.github.io> Twitter: @Desjonq

Camille Desjonquères <cdesjonqu@gmail.com>

UCalifornia SanDiego RECOMB-CG May20-21 DeadlineExtended

The 19th RECOMB Satellite Conference on Comparative Genomics NEW DATES 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 ar-

eas. 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 Author notification for posters: Monday, Apr. 4, 2022

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

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

“Jin, Lingling” <lingling.jin@cs.usask.ca>

UMichigan
RacialJusticeInEEBResearch
Mar19-Apr8

CALL FOR NOMINATIONS

17TH ANNUAL EARLY CAREER SCIENTISTS SYMPOSIUM

Racial Justice in EEB Research

The Department of Ecology and Evolutionary Biology (EEB) at the University of Michigan invites nominations for the 17th Annual Early Career Scientists Symposium. The symposium will highlight early career researchers transforming our discipline through anti-racist and justice-centered research that pushes our understanding of the links between EEB research and society. The goal of this symposium is to provide a space for the EEB community to think imaginatively about the future of our discipline. With this in mind, we welcome nominations of researchers who take anti-racist and justice-centered approaches to research in any area of EEB, which could include (but not limited to): Global Environmental Change, Genomics and Population Genetics, Urban Ecology and Evolution, Environmental History, STEM Education, Museum Science, Marine Ecology, Water Security, Theoretical Ecology and Evo-

lution, Global Food Systems, and Disease Ecology.

The symposium will begin on Saturday, March 19 in-person and live-streamed followed by three consecutive Fridays from March 25- April 8, 2022. Eight early career scientists will be selected to present their work, and two keynote speakers will be featured. The symposium will kick off with an in-person and live-streamed event on March 19th. The symposium will move to a virtual format in the following weeks, with two to three participants presenting each week, followed by a moderated discussion.

For the symposium, we consider early career scientists as senior graduate students (who stand to receive their Ph.D. within two years), postdoctoral researchers, faculty or staff scientists within their first or second year, and researchers at equivalent career stages who are not affiliated with an academic institution. Please contact the planning committee with questions about eligibility.

Nominations can come from colleagues or advisors. Self-nominations are also encouraged. Nomination materials should include: (1) contact information, (2) a brief description of the nominee’s work and proposed presentation, and (3) any other information that may help the committee review and select participants (for example, the nominee’s curriculum vitae; link to the nominee’s professional website; representative publication, media, or product that showcases the nominee’s work).

Nominations should be sent electronically as a single PDF file to ecss-2022@umich.edu using the subject line format, “nominee’s Last

Name, First Name ECSS 2022 Nomination”.

Review of nominations will begin on January 15th, 2022.

Selected participants will be contacted in late-January. An official announcement of speakers will be issued soon thereafter.

Information about Early Career Scientist Symposia held in past years can be found at

<http://sites.lsa.umich.edu/ecss/>. For more information or questions about eligibility, please contact ecss-2022@umich.edu.

Tom Duda <tfduda@umich.edu>

Wellcome
Evolutionary Systems Biology
Feb9-11

Dear EvolDir,

Join us for the 4th Evolutionary System Biology (Virtual Conference) organised by Wellcome Connecting Science.

Date: 9-11 February 2022

This year's conference will focus on the evolution of biological systems at different levels: genes, molecules and systems. We will also explore protein evolution, how microbes adapt to their environment, quantitative genetics, and the impact of evolutionary change on human health.

The organising committee shares on this blog the challenges in this field and why this year's virtual conference

is important for those looking to address future evolutionary research questions; please read here: <https://bit.ly/3IvIgg7> Our keynote speakers will be Nick Barton from IST Austria and Cassandra Extavour from Harvard University.

To increase the international diversity of attendees and promote more inclusive scientific discussions at our conferences, delegates based in Lower and Middle-Income Countries can register for this conference for free.

Registration closes on 2 February 2022.

For registration and the final programme, please go here: <https://coursesandconferences.wellcomeconnectingscience.org/event/evolutionary-systems-biology-virtual-conference-20220209/> Scientific Programme Committee Juliette de Meaux - University of Cologne, Germany Brandon Ogbunu - Yale University, USA Olivier Tenailon - INSERM, France Trisha Wittkopp - University of Michigan, USA

For questions, please contact: conferences@wellcomeconnectingscience.org

Nagehan Ramazanoglu Bahadir
<nagehan.bahadir@wellcomeconnectingscience.org>

GradStudentPositions

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BOKU-Vienna 3 BeetleEvol

Graduate position, bark beetle life-cycle regulation, BOKU Vienna: The University of Natural Resources and Life Sciences, Vienna, BOKU (Department of Forest and Soil Sciences; Institute of Forest Entomology, Forest Pathology and Forest Protection) is offering a 3-year PhD position to study life-cycle regulation and host plant adaptation of the pine bark beetle, *Ips acuminatus*.

One aim of the project is to study the effects of environmental conditions, particularly temperature and photoperiod, on the development of *I. acuminatus*. Under lab and field conditions, we will evaluate the influence of different abiotic conditions on the beetle's developmental time, to infer various thermal parameters. The findings will increase our understanding of the effects elicited by environmental parameters on the life history of this widespread insect.

Furthermore, *I. acuminatus* colonizes different conifer species, mostly pines but also Douglas fir. Under lab conditions, we will assess its preference for certain tree species and evaluate its breeding performance, i.e. reproductive success, in different host species, with the aim to understand patterns of host plant adaptations.

We are looking for a candidate who has strong interest in hands-on experimental work with insects, in statistical analysis of data, and is passionate in writing. A MSc degree in Biology, Ecology, Zoology, Entomology, Forestry or related fields is desired. Furthermore, interest in molecular work, knowledge in statistics (e.g. using R) and excellent writing and communication skills would be an advantage.

The 3-year project will be conducted in Vienna, one of the most-livable cities worldwide. BOKU Vienna has about 12,000 students with focus on life sciences. The institute deals with various entomological and mycological topics in forest ecosystems, with numerous PhDs, Postdocs and research staff. Gross salary is 2,294 EUR (14 times per year, plus inflation adjustment each year).

The project starts in March 2022, applications will be accepted until the position is filled. Please send a CV, if available a list of publications, a letter of motivation, and contacts of two references to the project PI Martin Schebeck, martin.schebeck@boku.ac.at. In case you have any questions don't hesitate to send an e-mail.

Graduate position: bark beetle-fungus symbiosis, BOKU Vienna The University of Natural Resources and Life Sciences, Vienna, BOKU (Department of Forest and Soil Sciences; Institute of Forest Entomology, Forest Pathology and Forest Protection) is offering a 3-year PhD position to study the fungal symbionts and their effects on the biology of their host, the pine bark beetle *Ips acuminatus*.

In this project we will study the community of ophiostomatoid (blue-stain) fungi associated with *I. acuminatus* in different tree species (*Pinus* spp., *Pseudotsuga menziesii*) under field conditions.

Isolates of the most important fungi will be used for experimental inoculations of trees to assess their pathogenicity and their relevance for *I. acuminatus* performance. Finally, lab bioassays on the preference of beetles for trees infected with different fungal symbionts will be performed to get a comprehensive understanding of the ecology and evolution of these symbiotic relationships.

We are looking for a candidate who has strong interest in hands-on experimental work with insects and fungi, in statistical analysis of data, and is passionate in writing. A MSc degree in Biology, Ecology, Zoology, Entomology, Mycology, Forestry or related fields is desired.

Furthermore, interest in molecular work, knowledge in statistics (e.g.

using R) and excellent writing and communication skills would be an advantage.

The 3-year project will be conducted in Vienna, one of the most-livable cities worldwide. BOKU Vienna has about 12,000 students with focus on life sciences. The institute deals with various entomological and mycological topics in forest ecosystems, with numerous PhDs, Postdocs and research staff. Gross salary is 2,294 EUR (14 times per year, plus inflation adjustment each year).

The project starts in March 2022, applications will be accepted until the position is filled. Please send a CV, if available a list of publications, a letter of motivation, and contacts of two references to the project PI Martin Schebeck, martin.schebeck@boku.ac.at. In case you have any questions don't hesitate to send an e-mail.

Graduate position: bark beetle diapause, BOKU Vienna The University of Natural Resources and Life Sciences, Vienna, BOKU (Department of Forest and Soil Sciences; Institute of Forest Entomology, Forest Pathology and Forest Protection) is offering a 3-year PhD position to study diapause regulation in the European spruce bark beetle, *Ips typographus*.

Diapause is an important part of the *I. typographus* life cycle, as it affects survival, life-cycle duration, reproduction, voltinism, stress

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

BristolU AdaptationViaImprinting

We encourage applications for a funded Master's by Research opportunity to study the role of larval imprinting in the success of insect crop pests. The project will use both comparative and experimental approaches, and is jointly supervised by Dr Sinead English (evelab.org) and Steve Montgomery (www.shmontgomery.co.uk) at the University of Bristol (UK), in collaboration with Dr Kwasi Asante (CSIR, Ghana) and Richard Merrill (University of Munich, Germany).

Project description:

Insect crop pests are a major challenge to global food security. A potential mechanism underlying insects' ability to infest new plants is through larval imprinting, where host plant preferences of an adult are determined by the plant they experienced as a larva. However, whether such imprinting facilitates the success of crop pests at adapting to new agricultural host plants is unclear. Indeed, there has yet to be a general comparative study on the prevalence and effectiveness of larval imprinting in plant-feeding insects in general.

In this project, the student will produce the first comparative study of larval imprinting across plant-feeding insects - focusing on which characteristics of crop pest species make them more amenable to using imprinting to switch to new host species. The student will also conduct their own experimental study to test predictions raised by this comparative approach and use insights from evolutionary ecology and developmental neurobiology to establish why and how such larval imprinting is retained across life stages.

Understanding host plant switches in crop pests and non-native species will help establish why some species rapidly move onto new hosts, and help determine which ecological characteristics predict this ability, providing red flags for monitoring pest invasions.

Funding:

This project is advertised as part of the Lady Emily Smyth MScR Studentships available to UK students - two of which are available in 2022/3 of a total of 8 advertised (see full list and details at: <https://www.bristol.ac.uk/biology/bcai/lady-emily-smyth-studentships/>)

Application deadline is 31/01/2022. Interested applicants please contact Dr Sinead English - sinead.english@bristol.ac.uk

Sinead English <sinead.english@bristol.ac.uk>

CambridgeU TransmissibleCancers

Transmissible Cancer Group, Prof Elizabeth Murchison University of Cambridge Department of Veterinary Medicine Research Assistant / Research Associate - Evolution of transmissible cancers

Limit of Tenure: 36 months.

The Transmissible Cancer Group at the University of Cambridge, Department of Veterinary Medicine, is seeking to appoint a Research Assistant or Postdoctoral Research Associate to join a dynamic team studying the evolution and host interactions of transmissible cancers in dogs and Tasmanian devils. This is a fixed-term 3-year position supported by a Wellcome research grant. This post is expected to start on 1st May 2022 but there is some flexibility for an earlier or later start date.

Transmissible cancers are long-lived clonal lineages of malignant cells that operate as infectious parasites, spreading between individuals by the physical transfer of living cancer cells. Among mammals, such diseases have been described in only two species: dogs and Tasmanian devils, and are spread by mating and biting, respectively. These extraordinary cell lineages provide an opportunity to study cancer evolution over the long-term, and to investigate the interaction between cancer cells and the allogeneic immune system. Furthering our knowledge of these diseases may also shed light on their transmission dynamics and inform conservation work.

This position is suited for someone with skills in computational biology and an interest in cancer evolution and tumour immunology. The role-holder will analyse genome, transcriptome and single-cell RNA sequencing (scRNAseq) data from tumours belonging to transmissible cancer lineages. We will annotate genetic variants

and use these to understand past and ongoing mutational and evolutionary processes, including the impact of mutation on gene expression and tumour phenotypes. Using scRNAseq data, we will seek to understand the contribution of host cells to the tumour microenvironment. By integrating data from hundreds of tumours, our goal will be to understand how cancers exploit a transmissible niche, and how the interaction between cancer and immune system controls disease outcome.

Applicants should hold a Masters degree (Research Assistant) or PhD (Postdoctoral Research Associate) in computational biology or a related discipline, and experience in genome analysis is preferable. The candidate must value teamwork and collaboration, have good organisational and interpersonal skills, and should be able to effectively manage their time. They will have the opportunity to make their own original contribution to the field of study within the framework of the project. If applying at the Research Assistant level it may be possible for the role-holder to register as a PhD student.

More information about the Transmissible Cancer Group can be found on our website at www.tcg.vet.cam.ac.uk, and information about the Department of Veterinary Medicine can be found at www.vet.cam.ac.uk. Informal enquiries should be directed to Prof Elizabeth Murchison (epm27@cam.ac.uk), and enquiries about the application process should be directed to Deborah Collett (dc748@cam.ac.uk). Further particulars for the role can be accessed at www.vet.cam.ac.uk. Applicants should submit a CHRIS/6, CV, covering letter outlining suitability for the role and contact details for two referees. Please note that shortlisted candidates will be expected to make a presentation at interview.

Please ensure that you upload your Curriculum Vitae (CV) and a covering letter in the Upload section of the online application. Any additional documents, which have not been requested, will not be considered as part of your application.

Closing date 25 February 2022 Interviews will be held on 16 March 2022

Elizabeth Murchison <epm27@cam.ac.uk>

Earlham RBGKew RiceGenDiversityAdaptation

Characterising rice genetic diversity in the Mekong Delta to sustain future crops

This project is based in the Jose De Vega Group at the Earlham Institute and the Rafal Gutaker Group at Royal Botanic Gardens, Kew.

Project Summary Rice is a versatile carbohydrate essential to diets worldwide and a staple for over 50% of the human population. Rice production in Vietnam is of enormous value, both as an export commodity and a daily food staple for more than 96 million people in Vietnam. However, climate change is threatening rice's wide availability. In Vietnam, the highest rice production areas are in the low-lying deltas of the Mekong and Red rivers which are particularly exposed to drought and increased salinity from seawater due to climate change.

Plant genetic resources provide the reservoir of adaptive and productive genes free of deleterious mutations needed to develop the improved cultivars that help ensure future crop production. Vietnam's rice diversity constitutes a significant and precious genetic resource. The highly productive Mekong Delta is a cultural and agricultural hotspot in Southeast Asia, where a unique and rich diversity of rice landraces developed through centuries (Gutaker et al. 2020; Higgins et al. 2021a). These locally adapted and inherited rice varieties constitute a highly valuable genetic resource for breeders to address increasing threats from climate change in the Mekong Delta. However, the growing adoption for high-yielding rice varieties in the Mekong Delta in the last five decades has driven the progressive replacement of locally adapted landraces.

This PhD aims to understand better the changes in rice genetic diversity in the region and the extent of potential genetic erosion from the loss of adapted local landraces. The student will quantify the genetic diversity in local landraces and admixed accessions, investigate their genetic make-up, and quantify deleterious mutations that hinder the further improvement of rice and its adaptation to future climates. The introduction and later widespread displacement of local landraces left us with a limited understanding of the extent of loss in genetic diversity and adaptive potential available to breeders in admixed elite varieties that retain local adaptation.

QueenslandU Tech MarsupialEvolution

PhD Scholarship to study marsupial evolution at Queensland University of Technology (QUT), in Brisbane, Australia

We are seeking a PhD candidate to study marsupial evolution as part of an Australian Research Council grant that aims to integrate morphology (including fossils), DNA and ecology to investigate the evolvability of marsupials and better understand processes that promoted and maintained their biodiversity - and how these processes may differ from other continental mammal faunas.

The PhD project will (1) use 3D shape variation to infer phylogenetic relationships and evolutionary rates among living and extinct marsupials and (2) trace the evolution of key characteristics (such as diet and foraging habits) on the marsupial phylogeny.

The project will employ recent methodological advances developed by the research team: Matt Phillips, Peter Prentis and Melina Celik at QUT, Simone Blomberg at Queensland University and Carmelo Fruciano at CRN, Messina, Italy. The project will also work with a network of collaborators with expertise in 3D geometric morphometrics, marsupial palaeontology and the Oz Mammal Genome project.

The selected candidate will need to apply to the upcoming scholarship round at QUT. The scholarship award of AU\$28,854 (per year, tax exempt) is to be used to support living expenses and is paid fortnightly for the period of 3 years. University tuition fees are also covered. The position will be based at QUT's Gardens Point Campus, which borders the city centre, the Botanic Gardens and the Brisbane River.

Applicants may be domestic or international students. Please provide your CV by January 17.

Selection criteria: 1. Strong academic record, including a Bachelor degree with Honours or Masters from a recognised institution. 2. Strong quantitative skills and ideally, competence with R. 3. English language fluency. 4. Demonstrated ability in either morphometrics, phylogenetics or other bioinformatics. 5. A non-essential (desirable) criterion is experience in computer coding/programming, especially in bioinformatics or phylogenetics.

For further information please contact the primary supervisor, Matt Phillips (m9.phillips@qut.edu.au).

For further information on the lab group, see <https://www.mphillipsbiol.com/> Or information on the School of Biology and Environmental Science at QUT, <https://www.qut.edu.au/about/faculty-of-science/school-of-biology-and-environmental-science> Matthew Phillips <m9.phillips@qut.edu.au>

m9.phillips@qut.edu.au

QueensU Belfast BehaviourEvolution

3 years PhD studentship: Does behaviour drive evolution? Conflict behaviour and reproduction in vertebrates

Supervisors:—Dr Isabella Capellini—&—Dr Domhnall Jennings—(Queen's University Belfast, UK) Although behaviour is believed to be an agent of selection, few studies have demonstrated that behaviour can drive evolution. This project will test whether behaviour drives evolution focusing on social conflict in the context of reproduction. Reproductive traits, such as the structure of the mammalian placenta, are highly diverse, evolve rapidly and are supposed to be a major target of selection caused by different forms of social conflict - parent-offspring conflict, sibling competition and sexual conflict. The project will exploit diversity among species and take advantage of state of the art phylogenetic comparative methods to investigate whether behaviour drives rapid evolutionary change in reproductive traits at large comparative scale.

DEADLINE: 18th of February 2022 Full project description: Does behaviour drive evolution? Conflict, behaviour and reproduction in vertebrates at Queen's University Belfast on FindAPhD.com

<https://www.qub.ac.uk/schools/-SchoolofBiologicalSciences/Research/PhDResearch/> Isabella Capellini <isab972@yahoo.co.uk>

Akane Uesugi <akane.uesugi@rmit.edu.au>

RMITU Melbourne PlantAdaptation

RMIT Classification: Trusted

Our lab is seeking a highly motivated student to undertake a fully funded three-year PhD project through RMIT University (Melbourne, Australia) .

PROJECT TITLE: Evolutionary drivers of niche dynamics in invasive weeds

BACKGROUND: Many invasive species are known to exploit novel ecological niches, which are not part of their ancestral niches. When and why do invasive populations expand their niches? This project explores ecological and evolutionary hypotheses of niche expansion in invasive capeweed (*Arctotheca calendula*) in Australia. The invasive Australian capeweed is broadly distributed from wet southern coast to dry inland. We found, so far, that the capeweed populations are adapted to their local aridity environments, and that they have genetically diverged in several morphological, phenological, physiological and chemical traits that mediate drought resistance. This capeweed system is highly amenable to manipulative experiments in the field and greenhouse, and provides an ideal opportunity to explore a range of questions related to adaptation in novel environments, including: 1) Does aridity drive parallel patterns of clinal divergence between native and invasive populations? 2) Does local adaptation drive niche shifts in the invasive range? 3) Do invasive populations have adaptive (evolutionary) potential for further niche expansion? The PhD project may involve: 1) field seed collection, 2) greenhouse and field transplant experiments, 3) plant physiology and chemical analyses, 4) quantitative genetics analyses, and 5) molecular analyses.

Applicants should have research experience equivalent to research honours or masters with a first-class grade to be eligible. A strong background in evolutionary biology and ability to work independently in the field setting is desirable. The student will be supervised by Akane Uesugi (RMIT U) and Keyne Monro (Monash U).

To apply, please send a CV/resume and a cover letter that includes a statement of interest and relevant experience to Akane Uesugi (akane.uesugi[at]rmit.edu.au). For further details of the project or any questions, please send an informal email. Review of applications will start Feb 1, 2022, and continue until the position is filled.

Senckenberg Frankfurt 3 MarineInvertEvol

Dear all

Could you please alert potential PhD students to these exciting projects in my lab group. Full funding is available for students of any nationality.

All three projects are based in the Senckenberg Research Institute and Museum, Frankfurt, Germany. The working language in our research group is English. Application deadline: 27 February 2022

Evolution of molluscan adaptations (apply with ref. #01-21053)

This project will use a series of case studies, from across the diversity of Mollusca, to assess the role of the biomineralization toolkit in phenotypic evolution. A funded PhD student will be trained in specialist lab techniques to describe the anatomy of the focal species, visualised using 3D techniques. These descriptive studies will provide a new comparative context to interpret the function of special structures and adaptive novelties. The PhD project will focus on morphology, but combined with collaborative phylogenomic analyses from other work in our research group, to test the phylogenetic placement of these target species with novel body plans, and related “normal” groups.

Phylogenetic systematics of polyplacophoran molluscs (apply with ref. # 01-21056)

The aims of this project are to improve taxon sampling for molecular phylogenetic analysis of total-group Polyplacophora, to conduct a systematic revision of a major clade within the class based on phylogenetic analyses supported by morphological diagnoses, and to describe new species using an integrative approach combining molecular and morphological data. The molecular aspects will be conducted in collaboration with colleagues from the LOEWE Translational Biodiversity Genomics center, using cutting edge techniques especially to gather data from historical museum samples.

Diversity of deep-sea holothurians (apply with ref. #01-21058)

Although namako are frequently seen in video footage captured by remotely operated vehicles (ROVs) controlled from deep sea research vessels, they are often

difficult to identify reliably. It is not clear how large the natural ranges are for these species, with some recent evidence indicating that species may be distributed worldwide, in contrast to the typical pattern of regionally segregated species complexes. With this project, deep sea holothurians (class Holothuria) will be studied using a combination of genome sequencing, DNA barcoding, and morpho-anatomical descriptions. This project will draw on material from the IceAGE and IceDIVA cruises and the research will be conducted in collaboration with Dr Saskia Brix-Elrig and other colleagues at Senckenberg am Meer based in Hamburg and Wilhelmshaven.

Application Info

Equity: The Senckenberg Research Institutes support equal opportunity of men and women. We strongly encourage women to apply. Equally qualified applicants with a disability will be given preference. We are committed to fostering a diverse team in Senckenberg and will positively consider candidates from under-represented groups and all genders (m/f/d).

International applicants: Please note that PhD studentships in Germany are typically paid at the salary scale of a postdoctoral researcher but at 67% of the full time rate. This is not equivalent to “part time studies” in other countries. The position offers a sufficient salary to live and work in Frankfurt. Senckenberg is a globally connected institute. Frankfurt is a vibrant, international, culturally diverse city and one of the world’s travel hubs. We are committed to welcoming and supporting candidates from all nations.

To apply, please submit a single document as an email attachment, including

- A cover letter (maximum 1-2 pages) explaining your interest in the project and your relevant prior experience;
- Your detailed CV, including names and contact details of two professional references;
- Copies of your relevant academic certificates and credentials, such as your university degrees.

Please submit your documents, mentioning the reference of this job posting (ref.# above), as a single email attachment to recruiting@senckenberg.de until 27 February 2022

Prof. Dr. Julia Sigwart Head of Section, Malacology
julia.sigwart@senckenberg.de

**** We’re hiring! **** Please see open positions for staff and funded PhD studentships at <http://sosa.senckenberg.de/> bit.ly/SMFMalacology | @sigwartae

Julia Sigwart <j.sigwart@qub.ac.uk>

SouthAfrica AvianSocialEvolution

PhD opportunity to study social networks and cooperation in sociable weavers A funded 4-year PhD position is available to study social network associations and cooperation using a long-term study on sociable weavers at Benfontein reserve, South Africa. The PhD work is part of an ERC-funded project that is investigating the role of partner choice in the evolution of cooperation. The successful candidate will be registered at the University of Porto (with possibility of having a joint PhD degree through the Universities of Porto and Montpellier).

The successful candidate will investigate feeding and roosting networks in this highly social species, and will use correlational data and experiments to examine the links between cooperation and social associations. The student will be working under the supervision of Rita Covas (CIBIO, University of Porto, Portugal), Claire Doutrelant (CEFE-CNRS, Montpellier, France) and André Ferreira (University of Zurich, Switzerland). S/He is expected to spend time in these different institutions, and to conduct fieldwork in South Africa.

The project requires a strong interest in sociality and cooperation and a keen interest in state-of-the-art technologies such as RFID and robotics. Previous experience with fieldwork and social network analyses are advantageous. A valid driver’s license is required.

Pre-application enquiries are welcome (please email rita.covas@cibio.up.pt , Claire.doutrelant@cefe.cnrs.fr or andrem343@hotmail.com) To submit your application: <https://www.cibio.pt/?p=1903> The deadline is 23 January 2022

For more information: <https://sociableweaverproject.com/> Rita Covas
<rita.covas@gmail.com>

TennesseeTechU SalamanderEvol

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

Two graduate student opportunities (one Ph.D. and one M.S.) are available through the Department of Bi-

ology (<https://www.tntech.edu/cas/biology/>) at Tennessee Tech University in Cookeville, Tennessee; starting date is August 2022.

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

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

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

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

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

“Hurt, Carla” <churt@tntech.edu>

TowsonU ConservationGenetics

MS Research Assistantship - Conservation genetics - Towson University (Baltimore, MD)

A graduate research assistantship for a masters student is available beginning Fall 2022 working with Dr. Jacqueline Doyle, through the Department of Biological Sciences at Towson University. The student's research project will include some combination of field, wet lab and bioinformatic research with mammalian or avian species. Projects may emphasize high throughput sequencing, SNP genotyping, metabarcoding, whole genome assembly and population genetics analyses, depending on the student's interests and experience. All projects will require problem-solving and critical thinking as students develop his/her/their thesis project. Financial support (stipend and full tuition waiver) will be provided through teaching and research assistantships and will be renewable annually contingent upon satisfactory performance.

The Department of Biological Sciences (<https://www.towson.edu/fcsm/departments/biology/>) supports research spanning multiple disciplines, with an emphasis on collaborative, interdisciplinary work in cell and molecular biology, organismal biology and ecology, physiology, and science education. The department is committed to inclusive, excellent undergraduate and graduate student education. In January 2021 the Department moved into a new science building which will create additional opportunities for collaboration and data collection.

Students should be self-motivated and able to work both independently and collaboratively. Students should have a degree in biology or a closely related field, with an undergraduate GPA of at least 3.0. The successful candidate should demonstrate an interest in conservation of threatened species. Preference will be given to candidates with experience working in a molecular laboratory and/or with bash/command line tools and a programming language (R, python). Students will have the opportunity to author at least one paper to be submitted for peer review in the scientific literature. More information on the MS program in Biology can be found at <http://www.towson.edu/fcsm/departments/biology/-gradbiology/> . Interested students should contact Dr. Jacqueline Doyle (jdoyle@towson.edu) with a short description of your academic background and interests, relevant coursework and/or research experience, your

CV and the names and contact information for three references who have knowledge of your academic and/or research background and potential, attached as a single PDF. Virtual interviews will be scheduled as applications are received, up until 31 January 2022. Following the initial screening process, successful applicants will be asked to apply to the graduate program itself.

Jacqueline M. Doyle, Ph.D. * Assistant Professor Biological Sciences * Fisher College of Science & Mathematics Towson University <https://outlook.towson.edu/owa/redir.aspx?SURL=-BVoicqOKKMubl0rcC8_phZEELNxJOIVOsilPeBSwnaYW24h7vABSCgMAAB0AHATOGAvAC8AdwB3AHCAgB0AG8AdwBzAhttp%3a%2f%2fwww.towson.edu%2f> * 8000 York Road * Towson, Maryland, 21252 t. 410-704-2117 * f. 410-704-2405

“Doyle, Jacqueline M.” <jdoyle@towson.edu>

TrentU ComputationalBiology

Graduate Postion in Computational Biology, Trent University, CANADA Environmental & Life Sciences Graduate Program (ENLS) - <https://www.trentu.ca/els/-experience/forms-students-faculty> Applied Modelling & Quantitative Methods Graduate Program (AMOD) - <https://www.trentu.ca/amod> Supervisor: Dr. Aaron Shafer

I am seeking to recruit a MSc/PhD candidate to develop simulations of genomes and quantitative traits that will be used to estimate heritability and responses to selection under various demographic scenarios. This project primarily involve computer simulations, though applications to empirical data sets in the lab are possible. Applicants should have an interest in computational biology and population genetics. Candidates must have completed a BSc (or BSc + MSc) degree; and I am primarily interested in recruiting an MSc student, though PhD and MSc-PhD conversions will be considered. The degree will be available through either the ENLS or AMOD graduate programs.

Interested candidates should contact Aaron Shafer (aaronshafer@trentu.ca) for more information and attach a copy of their current CV and academic transcripts.

Aaron Shafer <aaronshafer@trentu.ca>

UAarhus PlantEvolutionaryEcology

Plant Evolutionary Ecology: How plant chemicals affect plants response to climate change

Applications are invited for a PhD fellowship/scholarship at Graduate School of Technical Sciences, Aarhus University, Denmark, within the Ecoscience programme. The position is available from 1 May 2022 or later.

Title Plant Evolutionary Ecology: How plant chemicals affect plants response to climate change

Research area and project description A three-year PhD position in plant evolutionary ecology is available at Department of Ecoscience (ECOS) section for Terrestrial Ecology with an expected start 1st of May 2022.

The PhD will work on adaptation in aromatic plants, and study the importance of plants chemical variation for tolerance and adaptation to climate stress. Mediterranean aromatic plants show spatial variation in the chemical composition of their essential oil. This variation is associated with variation in temperature and drought stress. The PhD project will test whether specific chemical phenotypes confer adaptation to these abiotic environments, and in turn how variation in local abiotic conditions acts as selective agent for maintaining spatial variation in chemical phenotypes. The project consists of performing experimental work in the greenhouse, and in the lab at AU, and includes fieldwork in the Mediterranean region. In addition, based on the experimental results the PhD will work on climatic niche modelling in collaboration with international partners (I. Chuine, CNRS, Montpellier). The PhD is part of a larger project (AromAdapt) funded by the Independent Research Fund Denmark (DFF).

Who we are The Department of Ecoscience is engaged in research programmes, teaching and advisory work covering the major biological subdisciplines. We conduct world-class research in the areas of ecology, biodiversity and conservation biology, arctic environment and ecosystems, and aquatic biology. The Department currently employs approximately 275 academic and technical staff, as well as many PhD students.

The PhD will work at the Section Terrestrial Ecology. This section is composed of staff doing research and teachings on both fundamental and applied research. They also consult for the Danish Ministry of Environ-

ment and Food. The mix of foundational and strategic research creates a unique environment. Research addressing fundamental issues in Biology is placed in the context of its potential applied value in terms of green solutions for agroecology, or for conservation and management of the natural ecosystem. The section and its research groups collaborates closely with other section and departments within AU (chemistry, molecular biology, engineering) and international collaborations. The working environment is based on teamwork and close working relations. English is widely spoken. Department of Ecoscience and its sections has a strong work-life balance policy and seeks a good gender and age balance.

Qualifications and specific competences

We are seeking a highly motivated candidate with following qualifications: - MSc in Biology (or related discipline) - Good knowledge of evolutionary ecology and plant ecology - Good collaborative skills - Good at planning/organizing your work

Advantageous qualification

- Experience with greenhouse experiments and/or fieldwork - Experience with lab work - Programming/modelling and statistics - Good English writing and spoken

Place of employment and place of work The place of employment is Aarhus University, and the place of work is Section for Terrestrial Ecology C.F. Møllers Allé 4, Building 1120 8000 Århus C

Contacts Applicants seeking further information are invited to contact:

-Bodil K. Ehlers, boe@ecos.au.dk

How to apply Submit your application via this link <https://app.researchplanner.net/Peoplexs22/CandidatesPortalNoLogin/-ApplicationForm.cfm?PortalID=16581&VacatureID=-1082708> Application deadline is 13 March 2022, 23:59 . Preferred starting date is 1 May 2022.

For information about application requirements and mandatory attachments, please see our application guide at this link <https://phd.tech.au.dk/for-applicants/-application-guide/> Shortlisting will be used, which means that the evaluation committee only will evaluate the most relevant applications.

All interested candidates are encouraged to apply, regardless of their personal background.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive,

achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

Alan Wervick <awe@signatur.dk>

UAntwerp 2 EvolutionInfectionsBirds

PhD position on Ecology of *Borrelia* infections in wild birds, Evolutionary Ecology Group, University of Antwerp

A crucial factor to predict the persistence and spread of infections in natural systems (and potential spill-over to humans) is the capacity of reservoir hosts to maintain the infection and transmit it to others. This is known to vary greatly between species, but also within species and through time, although this part of the variation is often less well understood. Great tits are among the most important reservoirs of *Borrelia garinii*, a major causal agent of Lyme disease. In this project you will study how the capacity of birds to transmit these bacteria to their tick vectors varies between individuals birds, how it varies through the annual cycle, and whether stressful episodes may reactivate infections. This will be done through a combination of targeted field and lab experiments using birds from an intensively studied wild population. Infection status will be determined by xenodiagnosis (capacity of the bird to infect naive ticks) and molecular diagnoses.

You will work in the Evolutionary Ecology group that has strong expertise in studying ecology of infections in wild vertebrates and offers a dynamic and international working environment (www.uantwerpen.be/eveco). We seek applicants with a Master degree in Biology, Biomedical Science, Veterinary Science or a related field, with a basic background in ecological concepts, and a strong interest in studying the ecology of infections in a natural system. Experience with handling animals is an advantage but not strictly required. You are willing to combine intensive fieldwork with lab-based experimental work and data analysis.

We offer a doctoral scholarship for an initial one-year period. Following a positive evaluation, this will be renewed for an additional three years. The planned start date is 1 April 2022 or as soon as possible after that date. You are supervised by a multidisciplinary team including Prof. Erik Matthysen (University of Antwerp), Dr. Dieter Heylen (Institute for Tropical Medicine, Antwerp) and Dr. Hein Sprong (RIVM, Netherlands).

For more information and application procedure: <https://www.uantwerpen.be/en/research-groups/-eveco/research/main-ongoing-project/ecology-of-borrelia-infections-in-wild-birds/> —

Application for PhD scholarship on Avian Personality and Infection Ecology

Erik Matthysen, University of Antwerp

Our research group has studied host-tick-pathogen interactions for 15 years, with a particular focus on the biology of bird-associated ticks and the contribution of wild birds to transmission ecology of *Borrelia*, the agent of Lyme Disease. In a new project starting in 2022 we will monitor infections with *Borrelia* in a wild population of great tits, combining intensive field work with targeted lab experiments. Primary questions include the drivers of individual variation in *Borrelia* infections in birds, and factors causing temporal relapses of infectiousness in birds. This project offers an excellent opportunity to further investigate the role of bird behaviour including personality, which we have studied intensively in previous projects in the same study population.

We therefore are looking for candidates interested in applying for an externally funded PhD scholarship on the link between bird behaviour and infections with ticks and tick-borne pathogens, notably *Borrelia garinii*. The candidate should be willing to prepare an extensive proposal to be submitted to the FWO Research Council (www.fwo.be) with a deadline of March 1st 2022. The selection will be done by FWO and if successful, the four-year scholarship will start on November 1st 2022. Candidates should have a strong background in behavioural ecology or evolutionary ecology, preferably with experience or extensive knowledge on personality research and/or ecology of infections in wild populations.

For more information, see <https://www.uantwerpen.be/en/research-groups/eveco/research/main-ongoing-project/ecology-of-borrelia-infections-in-wild-birds/>
Erik Matthysen <erik.matthysen@uantwerpen.be>

UAntwerp BehaviouralEvolution

The Behavioural Ecology and Ecophysiology research group (Department of Biology, University of Antwerp, Belgium) is looking for a full-time (4 year) doctoral scholarship holder in the field of Behavioural Ecology.

Position * Project description: Aggression and signals

used during aggressive competition (e.g. song, ornaments...) have historically been considered as characteristics of male animals. Conversely, female competitive traits are understudied even though there is increasing evidence that they are common across a wide variety of taxa. Using nest box populations of individually-marked free-living songbirds (great and/or blue tits), the aim of this PhD is to study the costs and benefits of female competitive trait expression within a life-history and behavioural syndrome framework. Observational and experimental approaches will be used to link aggressive traits (including song) to reproductive fitness and survival, and/or to study proximate mechanisms underlying variation in aggressive traits.

Profile * You hold a Master degree recognized by the EU (or you will have obtained it by the time you start to work) in Biology (by preference) or in Biomedical or Veterinary Sciences (provided you have a strong background in behaviour, ecology and evolution). * You can demonstrate excellent study results. * You have excellent writing and communication skills; excellent command of written and spoken English is mandatory. * You are strong in planning and organizing, you can work independently, as well as in a team. * You are willing to apply for additional personal PhD grants (e.g. FWO Flanders).

What we offer * We offer a doctoral scholarship for a period of two years. Following a positive evaluation, the scholarship can be renewed once for another two-year period. * The planned start date is March/April 2022 (with some flexibility). * Your monthly scholarship amount is calculated according to the scholarship amounts for doctoral scholarship holders on the pay scales for Contract Research Staff (Dutch: Bijzonder Academisch Personeel, BAP). * You will work in the BECO research group on the CDE campus in a dynamic and stimulating working environment. BECO is a highly international and competitive research group with a strong thematic focus on animal behaviour, considering all 4 major aspects - causation, development, function and evolution. Our research combines behavioural, evolutionary and ecological approaches involving longitudinal and experimental field studies as well as controlled experiments performed under laboratory conditions with state-of-the-art physiological, molecular and statistical techniques. We also focus on urban ecological and ecotoxicological research. The candidate will be able to obtain a variety of skills.

Want to apply? * You can apply for this vacancy through the University of Antwerp's online job application platform up to and including 24 January 2022 (see: <https://www.uantwerpen.be/en/jobs/vacancies/-academic-staff/?q=53&descr=Doctoral-scholarship>)

holder,-Behavioural- Ecology). Click on the 'Apply' button, complete the online application form and be sure to include the following attachments: a motivation letter including a statement of interests, your full academic CV including contact details of at least 2 referees and including a list of publications if available, a pdf of your Master thesis if available, and a detailed record of your study results (Bachelor and Master). * The selection committee will review all applications as soon as possible after the application deadline. As soon as a decision has been made, we will inform you about the next steps in the selection procedure. Interviews with selected candidates are planned at the end of January or beginning of February. * If you have any questions about the online application form, please check the frequently asked questions or send an email to jobs@uantwerpen.be. If you have any questions about the job itself, please contact prof. dr. Marcel Eens, marcel.eens@uantwerpen.be

Prof. Dr. Marcel Eens marcel.eens@uantwerpen.be

Behavioural Ecology and Ecophysiology Group Department Biology Universiteitsplein 1 B - 2610 Antwerp (Wilrijk) - Belgium Tel. : +32 3 265.22.84 <http://scholar.google.be/citations?user=-nAAsOTsAAAAJ&hl=nl>

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

the diversification of melanosomes and melanin-based color. The student will likely learn and/or use electron and light microscopy, chemical analyses (Raman and mass spectrometry, etc.), spectrophotometry, phylogenetic and/or optical modeling. We encourage anyone with an interest in multidisciplinary research to apply, including those trained in fields outside biology. The position will be based in Ghent, but will involve some time at Naturalis and, if Covid allows, trips to China for collaboration with our palaeontologist colleagues. The student will be co-supervised by Dr. Matthew Shawkey (Ghent) and Dr. Liliana D'Alba (Naturalis).

Job profile

Open to all nationalities. A Bachelor's and Master's degree in any field of science (preferably Biology or Chemistry) is required, as is experience in, and enthusiasm for, scientific research.. The successful candidate will be able to work both independently and as part of a team. Proficiency with the English language (both written and spoken) is required, and familiarity with the Dutch language (or a willingness to learn) is advantageous. You can see more about our research and group at <https://www.eongent.net> How to apply

Please contact Dr. Matthew Shawkey via email at matthew.shawkey@ugent.be to express your interest. A formal application process will then follow. Deadline is Feb. 11, but we encourage you to make contact as soon as possible.

Matthew Shawkey <Matthew.Shawkey@UGent.be>

UGhent ColorEvolution

UGhent.ColorEvolution

A fully-funded 4-year PhD position over the broad themes of mammalian integumentary (primarily hair) coloration from a proximate and ultimate perspective is available in the Evolution and Optics of Nanostructures (EON) group at the University of Ghent, Belgium, and Naturalis Biodiversity Center in Leiden, Netherlands.

The PhD student will enhance our understanding of the form-function relationships in melanin-based colors in extant mammals through collection of extensive data on melanosome morphology, chemistry, and hair color. They will use these data to address hypotheses about the relationships between morphology and color, and may use these data to reconstruct colors and color patterns of fossil mammals while addressing hypotheses about

ULethbridge Canada BirdBrainsAndBehaviour

Our lab currently seeking applications from students interested in pursuing a MSc or PhD starting in May or September 2022.

We offer a range of research topics that combine field and lab based approaches to understand the evolution of diversity in the anatomy and behaviour of birds. Our lab houses one of the largest comparative brain collections in the world with over 190 species represented. Dedicated lab facilities include: microtomes, dissection microscopes, fluorescent microscope, high-resolution digital slide scanner, and state-of-the-art software for image analysis. As a member of the Department of Neuroscience, we also have ample wet lab space, access to additional imaging techniques, and animal housing. Field

research is supported by an array of field equipment, a dedicated 4x4 field vehicle, and a lab trailer for preparing samples.

Previous students have worked on a range of subjects, such as wing morphology in grouse, the effects of domestication on brain anatomy, olfactory system anatomy in vultures, and reconstructing the brain of the endangered night parrot. Several projects are available, but we also welcome students to develop their own thesis ideas related to avian neuroanatomy. Some examples of potential projects for new graduate students include:

* sensory ecology of extinct and endangered birds * the neuroanatomical effects of artificial selection for behaviour in pigeons * sensory systems of hawks and falcons

All students in the lab gain valuable skills in dissections, histology, microscopy, and statistical analyses. Depending on the specific project, students can also gain experience in bioacoustics, morphometrics, microCT scanning, field techniques (e.g., trapping methods, bird handling), and behavioural analysis as well as international travel to museums. Students are also strongly encouraged to present results at conferences, typically at least one major national or international conference per year.

Our lab maintains a diverse and inclusive lab that embraces a cooperative, team-based approach to research. Lab members work together and cooperate to solve problems, collect data, and communicate our findings. The successful applicant will not only be a member of our research team, they will also have opportunities to develop professional skills through the neuroscience graduate seminar course and workshops offered by the School of Graduate Studies. This is a fully funded position and there are opportunities to apply for additional scholarships.

Applicants must have a background in biology or neuroscience, some hands-on research experience (of any kind) and a valid driver's license.

To apply, please send to andrew.iwaniuk@uleth.ca the following: 1) a cover letter outlining your research interests and reason for applying 2) c.v. 3) unofficial copies of academic transcripts 4) names and contact details of at least 2 references

Andrew N. Iwaniuk Associate Professor Canada Research Chair in Comparative Neuroanatomy Canadian Centre for Behavioural Neuroscience University of Lethbridge Lethbridge AB T1K 3M4 Canada office: +1 403 332 5288 <http://scholar.ulethbridge.ca/iwaniuk/home> Bird-brain (bÄ»rd brän)1. a person regarded as silly or stupid.

“Iwaniuk, Andrew” <andrew.iwaniuk@uleth.ca>

UMainz EvolutionOfNeurotoxin

The University of Mainz offers a PhD position in Evolutionary Biology

Registration deadline: 20 January 2022

Application deadline: 27 January 2022

The position is part of a research training program funded by the German Science Foundation (DFG) aiming to understand the how complex and multi-layered gene regulatory systems have evolved. See more details here: <https://www.genevo-rtg.de/> In this project, we will study the evolution of cell-specific regulations of a neurotoxin and its self-resistance in Colorado Potato beetles. Here, we will use tools from comparative genomics and single-cell sequencing to investigate the mechanisms and evolution of cell-specific regulations of leptinotarsin, a neurotoxin specifically evolved in Leptinotarsa. We will also investigate the mechanisms of toxin self-resistance using a functional neurobiology approach. Specifically, we will address three questions:

1) Which cells produce leptinotarsin and how is it regulated at the cellular level? 2) What are the mechanisms of the leptinotarsin self-resistance? 3) How did leptinotarsin and its resistance mechanism evolve?

We are looking for a highly motivated student with a Master degree (or equivalent) in biology or computer sciences, good English skills, and strong interest in studying evolution. Previous experience with molecular biology, neurobiology, statistics and bioinformatics is advantageous. The successful applicant will join an international and interactive scientific environment with access to state-of-the-art, newly equipped laboratories. The student will be co-supervised by Prof Shuqing Xu, who will join the University of Mainz in April 2022 and Prof Marion Silies (<https://ncl-idn.biologie.uni-mainz.de/>).

Interested candidates should register to the IPP (<https://ipp2.imb.de/registration>) before 20 January 2022 and complete their application before 27 January 2022. More information can be found here: <https://www.genevo-rtg.de/application>. Informal enquiries should be sent to Prof Dr Shuqing Xu (shuqing.xu@uni-mainz.de).

The starting date for the position is 1 July 2022. The University of Mainz is interested in increasing the number of women in science. Applications from women are

therefore strongly encouraged. In addition, qualified candidates with disabilities will be preferred.

Shuqing Xu

Prof. Dr. Shuqing Xu Institute for Evolution and Biodiversity University of Münster Hiltferstraße 1 D-48149 Münster E-mail: shuqing.xu@uni-muenster.de / shuqing.xu@uni-mainz.de Phone: +49 251 83-21090

Shuqing Xu <sxu@uni-mainz.de> Shuqing Xu <sxu@uni-mainz.de>

UNorthCarolina 2 ConservationGenetics.html

<pre> Two Graduate Student Opportunities

Conservation Genetics of Sky-Island Small Mammals in the Appalachian Mountains

Two graduate student opportunities (one Ph.D. and one M.S.) are available through the Department of Biology and Marine Biology (<https://uncw.edu/bio/>) at the University of North Carolina Wilmington in Wilmington, NC; starting date is August 2022.

The successful applicants will be working in the labs of Dr. Brian Arbogast (https://uncw.edu/bio/faculty_arbogast.html) and Dr. Stephanie Kamel (https://uncw.edu/bio/faculty_kamel.html) to use mtDNA and microsatellite data to investigate the comparative phylogeography and population genetics of a variety of small mammal species found in the fragmented, high-elevation, spruce-fir sky-island ecosystem of the Appalachian mountains of the eastern U.S. Specifically, the students would conduct field work in the mountains of western North Carolina, and collect and analyze population genetic data on small mammals to address questions related to the conservation and management of the study species and the spruce-fir, sky-island ecosystem of the southern Appalachians in general.

We are looking for highly motivated candidates with a degree in biology or closely related field and a strong academic record and high potential for research success. A GPA of at least 3.5 is preferred. The successful candidate should demonstrate an interest in wildlife conservation and molecular genetics. The students will need to be able to conduct physically challenging field work on small mammals in the mountains of western North Carolina, perform careful research in a molecular genetics laboratory, and exhibit an aptitude for

analysis of genetic data. Previous experience working in a molecular laboratory is preferred (especially for prospective Ph.D. students), but exceptional applicants without experience will be considered. Financial support packages will be provided through teaching and research assistantships and will be renewable annually contingent upon satisfactory performance.

Interested students are encouraged to e-mail Dr. Brian Arbogast (arbogastb@uncw.edu). Please include a short description of your academic background, research interests, relevant field work and laboratory experience, your CV, and the names and contact information for two references who have knowledge of your academic and/or research background and potential, attached as a single PDF to your email. Screening of applicants will begin immediately. For full consideration, this information must be received by February 1, 2022.

Additional information on the graduate program at UNC Wilmington may be found at:

<https://uncw.edu/bio/graduate.html> (General Information)

<https://uncw.edu/bio/grad-phd.html> (Ph.D. Program in Integrative, Comparative, & Marine Biology)

<https://uncw.edu/bio/grad-ms.html> (M.S. Program in Biology)

Brian S. Arbogast, Ph.D.

Professor & Curator of Mammals

Department of Biology and Marine Biology

University of North Carolina Wilmington

Wilmington, NC 28403

arbogastb@uncw.edu

“Arbogast, Brian S.” <arbogastb@uncw.edu>

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UOldenburg PlantFungiMetatranscriptome

A 3-year fully funded PhD position in our lab for the second phase of the DynaCom research group (uol.de/dynacom) at the University of Oldenburg, Germany, funded by DFG. Working language is English.

The project will investigate the effect of salt stress on plant-fungal interaction in salt marsh plants using a

metatranscriptomic approach. Fungal research background welcome.

Basic experience in high-throughput sequencing analysis important.

DynaCom is interested in biodiversity ecosystem functioning of salt marshes in Northern Germany, worldwide and in theory. Participation in research group means close interaction with other PhD students working on related topics, courses and soft skill training and regular meetings of the whole group.

Full job description available at <https://uol.de/en/plant-evol/stellenausschreibungen> Contact Prof. Dirk Albach (dirk.albach@uol.de) for further details.

Application deadline: 20th Feb 2022

< <https://uol.de/plant-evol> >

“Prof. Dr. Dirk Carl Albach” <dirk.albach@uni-oldenburg.de>

UPorto EvolGenomicsVocalBehaviour

Title: EVOLUTIONARY GENETICS AND GENOMICS OF LEARNED VOCAL BEHAVIOUR
Type of position: PhD student grant
Link with details for application: <https://finder.lacaixafellowships.org/-finder?position=4976>
Deadline: 27 January 2022

— Host institution CIBIO - Research Centre in Biodiversity and Genetic Resources | University of Porto (Portugal) <https://cibio.up.pt/>

— Group leader Dr. Miguel Carneiro
Email: miguel.carneiro@cibio.up.pt Link: <https://scholar.google.com/citations?user=onCfzJ4AAAAJ&hl=en-GB>

— Research group EVOLGEN: <https://cibio.up.pt/en/groups/evolutionary-genetics-and-genomics-evolgen>
Twitter: <https://twitter.com/evolgenCIBIO> —
Research Project / Research Group Description

Vocalizations in many species are learned behaviours acquired based on auditory experiences early in life. Although many questions about the evolution of vocal learning could be better addressed with knowledge of the genetic changes driving vocal differences among individuals and species, a complete chain of causality between gene and phenotype has rarely been achieved. This project aims to identify genes controlling the genetic

predisposition of individuals for learning and producing specific vocalizations by exploiting variation existent in artificially selected canaries that exhibit distinct songs. To map phenotype onto genotype, the candidate will apply an integrative approach applied to breeds of domesticated canaries that leverages techniques and expertise in the fields of genome sciences, animal behaviour, and neurobiology. The approach is divided in four aims: (1) phenotypic analyses of brain and song to elucidate the nature of the observed differences in vocal behaviour of breeds under study; (2) genetic mapping using population genomics and pedigrees generated using laboratory crosses to identify genomic regions underlying these differences; (3) molecular and functional genomic tools for experimental validation and identification of specific genes/mutations; and (4) comparative genomics to assess evidence for adaptive convergent evolution among several clades of vocal learners, including humans, either at the protein and regulatory levels. The proposed research therefore provides a unique opportunity to identify networks of genes controlling differences in vocal learning behaviour and can significantly expand our understanding of complex and fascinating biological phenomena such as birdsong and human speech. The candidate will be integrated in the Evolutionary Genetics and Genomic group (EVOLGEN) at CIBIO, which brings together people broadly interested in the genetic determinants underlying phenotypic diversity in nature, including learned behaviours.

— Job position description

The candidate will be a part of an international collaborative group, which includes the EVOLGEN group at CIBIO led by Dr. Miguel Carneiro, Dr. Malgorzata Gazda (Department of Genomes & Genetics, Institute Pasteur), and Dr. Tracy Larson (Department of Biology, University of Virginia) The team members, recognized specialists in evolutionary biology and neurobiology, will supervise the process of learning and applying of state-of-the-art genomic tools and behavioural assays in order to elucidate the genetic underpinnings of song phenotypes. The PhD student will be mostly involved in applying functional genomic tools to establish explicit genotype/phenotype associations with a high standard of evidence and to unravel specific molecular mechanisms driving vocal behaviour divergence. Many resources have been already generated in the lab, including improved, chromosome level reference genome and annotation, together with the whole-genome resequencing data, will be used to screen candidate genes (e.g. genes implicated in motor learning and the development of neuronal circuits) and potential causative mutations (single nucleotide polymorphisms, small indels, and structural variants). The PhD student will help to conduct exper-

iments that allow for an in-depth investigation of the functional impact of genes or mutations. Depending on the nature of the findings, experiments will include a variety of techniques to assess gene expression (In Situ Hybridization, Immunohistochemistry, RNA-seq), identification of tissue-specific regulatory elements and assessment of cis-regulatory activity (ChIP-seq, ATAC-seq, CRE-seq), and enzymatic assays for evaluating biochemical function. In this way, we aim to map genotype onto cellular and molecular phenotype. The student is expected to contribute towards results communication in form of oral presentation

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UPorto Evolutionary Genomics

**Informal call for a PhD student Candidate in Evolutionary Genomics at the Universities of Porto and Montpellier, to apply to an FCT Scholarship (Portugal)
NEW DEADLINE

Genomics of ancient hybridization

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

The selected candidate will be invited to apply to a 4-year PhD Fellowship of Fundação para a Ciência e a Tecnologia (FCT, Portugal), in the call expected for the first trimester of 2022 (see information about the previous call at [<https://www.fct.pt/apoios/bolsas/concursos/individuais2021.phtml.en>]). Monthly salary is compatible with living costs in Portugal (“BD” in [https://www.fct.pt/apoios/bolsas/docs/Tabela_Valores_SMM_LOE_2021.pdf]), and the fellowship covers social security and tuition fees. If the fellowship is granted, the PhD project is expected to start in October 2022.

Application deadline: 11 February 2022

Project Description It is now well documented that related species often exchange genetic material in the

wild. Interspecific genetic introgression is thus a potentially important player in biodiversity evolution, yet poorly quantified and characterised. Modern genomics offers unprecedented opportunities to fill this gap and address several questions of great importance for our understanding of evolution: under what conditions does introgression occur, what is the role of natural selection in promoting or impeding it, and the origin selection? The project will focus on three species of south European hares (genus *Lepus*) that were affected by introgression from an arctic/boreal species that they replaced in this region during the current deglaciation. Analysing a collection of full genome sequences and additional population genetics data, this project will aim to detect and quantify all factors modulating introgression, related for example with sex-linked transmission and behaviour, the interplay between recombination rate variation and genetic incompatibilities, positive natural selection, and coadaptation between genomic regions. This project will allow the acquisition of skills in bioinformatics and sophisticated cutting-edge population and evolutionary genomics, by handling large-scale genomic datasets. This work is expected to have a general impact on the understanding of speciation and evolution through genetic exchange, broadening our understanding of biodiversity beyond species inventories.

Supervision: - The PhD project will be supervised by Josi $\frac{1}{2}$ Melo-Ferreira (CIBIO-InBIO, University of Porto - [<https://cibio.up.pt/>] ; [<https://sites.google.com/site/meloferreira>] ; [<https://scholar.google.com/citations?hl=en&user=YYMR-gMAAAAJ>]) and Pierre Boursot (ISEM, University of Montpellier; [<http://www.isem.univ-montp2.fr/en/personnel/teams/sex-and-speciation/boursot-pierre.index/>] ; [<https://scholar.google.com/citations?hl=en&user=fslosr0AAAAAJ>]) and developed in both labs. It will integrate the long-term collaboration between the institutions (see [<http://www.lia-bioevol.org/>]).

- If the Fellowship is granted, the Student will register in the BIODIV ‘ Biodiversity, Genetics and Evolution ’ PhD program at the University of Porto, Portugal. A cotutelle between the Universities of Porto and Montpellier is envisioned.

- The successful candidate will integrate the EVOCHANGE ‘ Genomics of Evolutionary Change ’ research group at CIBIO-InBIO ([<https://cibio.up.pt/research-groups-1/details/evochange>]).

Required Qualifications: - A Master (MSc) degree in Biology, Evolution, Genetics, Bioinformatics or related fields is required. If any of the stated degrees was obtained abroad, the formal recognition of the degree in Portugal and the conversion of the obtained grades to

the Portuguese scale are required at the time of the application to FCT (more information at [

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UPorto Evolutionary Genomics Hybridization

Informal call for a PhD student Candidate in Evolutionary Genomics at the Universities of Porto and Montpellier, to apply to an FCT Scholarship (Portugal)

Genomics of ancient hybridization

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

The selected candidate will be invited to apply to a 4-year PhD Fellowship of Fundação para a Ciência e a Tecnologia (FCT, Portugal), in the call expected for the first trimester of 2022 (see information about the previous call at <https://www.fct.pt/apoios/bolsas/concursos/individuais2021.phtml.en>). Monthly salary is compatible with living costs in Portugal (“BD” in https://www.fct.pt/apoios/bolsas/docs/Tabela_Valores_SMM_LOE_2021.pdf), and the fellowship covers social security and tuition fees. If the fellowship is granted, the PhD project is expected to start in October 2022.

Application deadline: 21 January 2022

Project Description It is now well documented that related species often exchange genetic material in the wild. Interspecific genetic introgression is thus a potentially important player in biodiversity evolution, yet poorly quantified and characterised. Modern genomics offers unprecedented opportunities to fill this gap and address several questions of great importance for our understanding of evolution: under what conditions does introgression occur, what is the role of natural selection in promoting or impeding it, and the origin selection? The project will focus on three species of south European

hares (genus *Lepus*) that were affected by introgression from an arctic/boreal species that they replaced in this region during the current deglaciation. Analysing a collection of full genome sequences and additional population genetics data, this project will aim to detect and quantify all factors modulating introgression, related for example with sex-linked transmission and behaviour, the interplay between recombination rate variation and genetic incompatibilities, positive natural selection, and coadaptation between genomic regions. This project will allow the acquisition of skills in bioinformatics and sophisticated cutting-edge population and evolutionary genomics, by handling large-scale genomic datasets. This work is expected to have a general impact on the understanding of speciation and evolution through genetic exchange, broadening our understanding of biodiversity beyond species inventories.

Supervision: - The PhD project will be supervised by José Melo-Ferreira (CIBIO-InBIO, University of Porto - <https://cibio.up.pt/>; <https://sites.google.com/site/meloferreira>; <https://scholar.google.com/citations?hl=en&user=YYMR-gMAAAAJ>) and Pierre Boursot (ISEM, University of Montpellier; <http://www.isem.univ-montp2.fr/en/personnel/teams/sex-and-speciation/boursot-pierre.index/>; <https://scholar.google.com/citations?hl=en&user=fslosr0AAAAJ>) and developed in both labs. It will integrate the long-term collaboration between the institutions (see <http://www.lia-bioevol.org/>). - If the Fellowship is granted, the Student will register in the BIODIV - Biodiversity, Genetics and Evolution - PhD program at the University of Porto, Portugal. A cotutelle between the Universities of Porto and Montpellier is envisioned. - The successful candidate will integrate the EVOCHANGE - Genomics of Evolutionary Change - research group at CIBIO-InBIO (<https://cibio.up.pt/research-groups-1/details/evochange>).

Required Qualifications: - A Master (MSc) degree in Biology, Evolution, Genetics, Bioinformatics or related fields is required. If any of the stated degrees was obtained abroad, the formal recognition of the degree in Portugal and the conversion of the obtained grades to the Portuguese scale are required at the time of the application to FCT (more information at <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>). - Candidates should be highly motivated and demonstrate strong interest in Evolutionary Biology. - Preference will be given to candidates with experience in analyses of

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

UppsalaU Comparativegenomics

A PhD student position in evolutionary genetics is available at the Department of Ecology and Genetics, Evolutionary Biology.

The Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to studies of ecosystems. For more information, see www.ieg.uu.se. The Evolutionary Biology Centre (<http://www.ebc.uu.se/?languageId=1>) is one of the world's leading research institutions in evolutionary biology. It is part of Uppsala University, which has been ranked very high among all European Universities in the subject of evolutionary biology. Our lab is part of the Program of Evolutionary Biology that excels in many aspects of genetics and evolution and offers an inspiring international atmosphere. There are ample opportunities for interaction with PhD-students, PostDocs and researchers working on related topics. We are tightly linked to the Science for Life Laboratory (<https://www.scilifelab.se/>) and have access to advanced laboratory infrastructure, high performance computing resources and bioinformatics support.

Project description/duties: Phenotypic plasticity is one of the most important mechanisms used by plants and animals for adapting to changing environmental conditions and thus of major evolutionary interests. This project will combine fieldwork, laboratory experiments and comparative transcriptomic work and functional assays (using RNAi) to study how photoperiod affects plasticity in wing polyphenism in different species of waterstriders. Waterstriders are a well-known group of insects that show wing polymorphism both between species as well as within species, and plasticity is largely due to variation in photoperiod. Several different species of waterstriders will be studied and nymphs raised in the laboratory during different photoperiod for sampling of transcriptomic information followed by RNA seq analyzes to identify differentially expressed genes. Genetic crossing experiments as well as artificial selection experiments will also be set up to investigate inheritance patterns under different environmental conditions. Functional genetic work on differentially expressed genes of interests will be performed using established RNAi pro-

ocols developed and optimized for waterstriders. The overall goal of the project is to identify the gene regulatory network that is responsible for wing polyphenism and how it interacts with photoperiod and how this has allowed plasticity in wing development to evolve in the different species. The PhD student position includes research, courses and literature studies.

Qualifications required: To be eligible for a PhD-student position the applicant must hold a master degree (or equivalent) in evolutionary biology, cell and molecular biology or developmental biology or related fields. Candidates must be able to express themselves fluently in spoken as well as written English.

Qualifications desired: The ideal candidate is highly motivated and enthusiastic about evolutionary biology, particularly in population genomics and/or developmental biology. Experience with bioinformatic analysis and programming is advantageous.

Type of employment: Temporary position according to the Higher Education Ordinance chapter 5 § 7. The graduate program covers four years of full-time study. The position can be combined with teaching or other duties at the department (maximum 20%), which prolongs the employment with the corresponding time. The salary will be set according to local agreements. Rules governing PhD candidates are set out in the Higher Education Ordinance Chapter 5, §§ 1-7 and in Uppsala university's rules and guidelines <http://regler.uu.se/search/?hits0&languageId=1&search-language.en=English>. More information about postgraduate studies at Uppsala University is available at <http://www.teknat.uu.se/education/postgraduate/>. Scope of employment: 100%.

Salary: According to local agreement for PhD students.

Starting date: 2022-04-01 or as otherwise agreed.

Application: The application should include: 1) a letter of intent describing yourself, your research interests and motivation of why you want to do a PhD, and why you are suitable for the position, 2) your CV, 3) a short description of your education, 4) a copy of your master degree, your course grades and a copy of your master thesis, 5) the names and contact information to at least two reference persons (e-mail address and phone no.), 6) publications produced. The application should be written in English.

For further information about the position please contact: Dr Arild Husby,

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mcmaster.ca/~brian/evoldir.html

UppsalaU EcoEvolutionMicrobeEukaryotes

A PhD student position is open in the lab of Fabien Burki at the Department of Organismal Biology, Uppsala University (Sweden).

Multidisciplinary project in marine microbiology with emphasis on symbiosis

See full description and how to apply here: <https://uu.varbi.com/en/what:job/jobID:464881/type:job/where:4/apply:1> Closing date: February 14, 2022

Project description: The position is associated with an ongoing project on characterising an enigmatic marine endosymbiosis in the micro-eukaryote genus *Meringosphaera*. These are single-celled eukaryotes that are globally distributed and are considered photosynthetic based on consistent observations of autofluorescent 'green bodies' and absence of feeding behaviours. Interestingly, we recently showed that *Meringosphaera* belongs to the group of heterotrophic protists centrohelids. The overarching goals of this four-year PhD project are to identify the closest free-living relatives to the endosymbionts, and to characterize the levels of cellular, genetic, and metabolic integration of the endosymbionts to pinpoint the nature of this endosymbiosis. A suite of single cell methods will be employed, including single-cell genomics and metagenomics, as well as confocal scanning microscopy, transmission electron microscopy, and focused ion beam-secondary electron microscopy (FIB-SEM). The position is based in the laboratory of Fabien Burki at IOB at Uppsala University, but includes a strong collaborative component with the laboratory of Rachel Foster at Stockholm University and the lab of Tom Delmont in Paris.

Duties: The position involves sampling, cell isolation, imaging with advanced microscopy, and attempts for cultivation of *Meringosphaera* cells in enrichment cultures. Additionally, managing the sample preparations for single cell genomics, and a strong bioinformatic component, will be required. Training will be provided when necessary.

Requirements: Completed university education of 240 university points (högskolepoäng, hp) out of which 60 hp on advanced level corresponding to master degree

in relevant field to the project. The selected candidate must possess expertise and knowledge in microbial sampling as well as identifying and handling small eukaryotic plankton. Experience in culturing of microbial eukaryotes, background in eukaryotic diversity and photosymbiosis will be seen as highly valuable. A suite of methodologies will be used as described in the project description and are desirable attributes of the candidate. In particular, proven expertise in bioinformatics (e.g. phylogeny, genomics) and use of a scripting language (Python, R) are essential. Great emphasis is placed on personal qualities such as planning and organizational skills, high-motivation, problem solving and good collaborations and communication skills with other researchers. The applicant must have documented experience and proficiency in oral and written presentation in English.

Additional qualifications: In filling this position, the university aims to recruit the person who, in the combined evaluation of competence, skills and documented qualifications, is judged most suitable to carry out and develop the work-in-hand and to contribute to a positive development of the department.

Application: The application should include 1) a letter of intent describing yourself, your research interests and motivation of why you want to do a PhD, 2) a short description of your education, 3) a CV, 4) a copy of your master degree and course grades, 5) the names and contact information (address, email address, and phone number) of at least two reference persons, 6) relevant publications (including master thesis). The application should be written in English.

Contact: Further information about the position can be obtained from Dr. Fabien Burki, telephone: +46 18-471 27 79, fabien.burki@ebc.uu.se.

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

USaskatchewan SquirrelLifeHistory

M.Sc. or Ph.D. position on integrative biology of wild hibernating Columbian ground squirrels.

I am currently advertising one graduate student (either M.Sc. or Ph.D.) opening in the Evo-Eco-Energetics Lab (PI: Dr. Jeffrey Lane) in the Department of Biology, at the University of Saskatchewan. Start dates of May or September, 2022 are possible, with an earlier start being preferred. There is also the potential for a student to complete a field season as part of the field crew prior to enrolling in the graduate program at the UofS. The student will need to be successful in either external (e.g., NSERC post-graduate scholarships for Canadian citizens) or internal funding competitions (scholarship or teaching assistantship).

The Project: Integrative biology of hibernating Columbian ground squirrels.

Since 2008, we have been developing a wild population of hibernating Columbian ground squirrels in Alberta's Rocky Mountains as a system in which to integrate energetic physiology, ecology and evolutionary biology. Individuals in this population hibernate for 8-9 months each year, and we have learned that hibernation is phenotypically plastic, heritable and associated with fitness. Current, graduate student-led, work on the project is investigating energy allocation to reproduction, abiotic (e.g., weather) and biotic (e.g., food abundance) influences on hibernation biology, and between-population variation in energetics and phenology. We are excited to advance these lines of investigation over the coming years, and are looking to recruit at least one student with interests in: climate change biology, evolutionary ecology, life history evolution and/or energetic physiology.

To support this project, the student will have access to dedicated research infrastructure, including a mobile laboratory trailer (housing a quantitative magnetic resonance analyzer (to measure body composition) and a field portable respirometry system (to measure metabolic rates), necessary field equipment (e.g., live traps and handling equipment). We have recently refined protocols for individual food-supplementation, enabling targeted feeding experiment. The student will have access to those protocols and equipment. The student will also have full access to the 14 year data set to address their research questions. All fieldwork

will be based out of the University of Calgary's R.B. Miller Research Station (<https://research.ucalgary.ca/-biogeoscience-institute/facilities/rb-miller-station>).

The successful applicant will have a GPA 80 % (converted to the UofS' 1-100% scale) over the past two years of schooling, and a degree in a relevant discipline (e.g., ecology, environmental biology, physiology, evolutionary biology or zoology). In addition, a passion for fieldwork, wildlife ecology, and academic research as well as excellent scientific communication skills (both written and oral), statistical proficiency (or a willingness to gain it) and the ability to work productively as a member of a team (both in the field and office) is necessary. Evidence of scientific productivity (manuscripts published or in preparation, conference attendance and presentations) will be viewed favourably. This position is open to both Canadian and international students. We believe equity, diversity, and inclusion strengthen the community and enhance excellence, innovation and creativity. We, therefore, encourage members of the underrepresented groups in STEM (e.g., women, Indigenous Peoples, persons with disabilities, members of visible minorities, and diverse sexual orientation and gender identities) to apply.

If you are interested in applying, please submit a cv (including names and contact details of references), a short (1 pg) description of research interests and a copy of your transcripts to (unofficial or official) to Jeffrey.lane@usask.ca. Applications will be evaluated as they're received. To ensure full consideration of your application, therefore, please submit ASAP. Any questions can also be directed to the same email address.

Thank you in advance for your interest in this position, however, only those selected for an interview will be contacted.

"Lane, Jeffrey" <jeffrey.lane@usask.ca>

USBohemia Czechia EvolutionaryGenomicsButterflies

Graduate position: USBohemia.Czechia.EvolutionaryGenomicsButterflies

New PhD Position: Evolutionary genomics of butterflies in the Brazilian Atlantic Forest (Please, feel free to distribute to all potential candidates) Closing date: February 28, 2022

You will be part of an exciting research project study-

ing species diversification and distributional patterns of Lepidoptera (butterflies and moths) of the Brazilian Atlantic Forest. The goal of the PhD position is to infer macroevolutionary drivers of extant ecological patterns along altitude and latitude, and to test competing hypotheses for understanding parapatric speciation on tropical mountain ranges.

You will generate new data using whole-genome resequencing to infer species-level phylogenies and to compute metrics of genomic regions of divergence between parapatric, sister species. It is expected that this framework will allow you to test the roles of abiotic factors (temperature, altitudinal gradients) in shaping the extant species and genetic diversity of butterflies in a tropical biodiversity hotspot.

Priority will be given to candidates who have co-authored at least one scientific publication (including submitted and accepted manuscripts). Experience with molecular phylogenetics, population genetics and/or analysis of high-throughput DNA sequencing data using bioinformatic pipelines is advantageous.

The results will be part of a larger multidisciplinary research aiming at determining the evolutionary mechanisms that shaped current Lepidoptera biodiversity patterns (centers of endemism and species richness) in the Atlantic Forest. This is a bilateral research project that brings together two teams in the Czech Republic (Biology Centre, CAS) and Brazil (University of Campinas). You will have the opportunity to carry out fieldwork in Brazil and to closely interact with Prof. Andr?? Freitas (<http://tiny.cc/Freitas>), Dr. Karina Silva-Brand??o (<http://tiny.cc/SilvaBrandao>, LIB, Hamburg), and their research groups. As part of the international research activities, multiple avenues for networking will also be possible (for example, Prof. Niklas Wahlberg, Lund University, Sweden; <http://tiny.cc/Wahlberg>).

The applicant must have the following qualifications: - Master's degree in biology or related fields (must be awarded prior to the starting date). - Good communication skills in English, written and spoken. - Independence in learning and working, with documented productivity.

It is expected that you will enroll into the associated PhD program (4 years) at the Faculty of Sciences, University of South Bohemia (<https://www.prf.jcu.cz/en>). The scholarship will be a combination of research grant salary (50%, from the Biology Centre, Czech Academy of Sciences, <https://www.entu.cas.cz/en/>) plus student stipends (50% from the University of South Bohemia), fully covering living expenses with a comfortable margin in the Czech Republic. The research facility is in Ceske Budejovice, a charming historical city in the south of

the country, within an easy reach of Prague and Vienna. Our working environment (Department of Ecology, led by Prof. Vojt??ch Novotn??, <http://tiny.cc/Novotny>) is highly diverse and international (16 nationalities from 4 different continents).

The application is by e-mail (to pavel.matos@entu.cas.cz) and must be written in English. The following documents must be attached in one single PDF file: - Cover letter, stating your motivation, how your background and skills fit the project, and your potential plans for this position (max. 2 pages). - CV, including contact details of at least two referees that are familiar with your work.

The deadline for applications is February 28, 2022. The top ranked candidates will be selected for an interview in English (by phone/skype). The start date is upon agreement, but the successful applicant is expected to start during summer (northern hemisphere) 2022.

For further information, please do not hesitate to contact me.

Dr. Pavel Matos-Maravi Biology Centre, Czech Academy of Sciences Branisovska 31, 37005, Ceske Budejovice, Czech Republic
Email: pavel.matos@entu.cas.cz Web: <http://-pavelmatos.wordpress.com> pavel.matos@entu.cas.cz

WageningenU AvianSocialEvolution

A PhD student position is open in the Behavioural Ecology group at Wageningen University, the Netherlands.

The evolution of sociality and cooperative breeding in African birds

See full description and how to apply here:

<https://www.wur.nl/en/vacancy/PhD-position-in-Behavioural-Ecology-2.htm> Closing date: February 15, 2022

We offer a fully-funded PhD position in the Behavioural Ecology Group at Wageningen University to work in our "Social Savanna" project. The Social Savanna project was set up in 2017 with the goal of understanding the evolutionary drivers of sociality and cooperation in birds. The research of the vacant position, funded by NWO ENW, is based on cutting-edge concepts in the field of social evolution, and consists of fieldwork supplemented by phylogenetic analysis. The focus will be on how adverse environmental circumstances affect the

relation between sociality, cooperation and reproduction. Using state-of-the-art tracking and monitoring technology, the successful candidate will study a range of different bird species, covering both cooperative and non-cooperative breeders. The fieldwork, conducted in savanna habitat at Mbuluzi Game Reserve, Eswatini, includes for example catching and ringing birds, monitoring breeding attempts and reproductive behaviour, tracking individual movement, and recording various ecological and environmental features such as vegetation and predators.

The research is embedded within the chair group Behavioural Ecology < <https://www.wur.nl/en/research-results/chair-groups/animal-sciences/behavioural-ecology-group.htm> >, and the successful candidate will be a member of the 'Social Savanna' team, which is led by Dr. Sjouke A. Kingma (<http://www.behaviouralecology.nl/>). You will be part of a team consisting of, among others, Dr. Kat Bebbington, Prof. Marc Naguib, and Prof. Ara Monadjem.

You have:

- * a successfully completed MSc degree in the field of Behavioural Ecology, Evolutionary Biology, Animal Ecology, or similar
- * experience (or an affinity for) conducting fieldwork on birds, ideally including behavioural observations, catching and handling of wild birds, and/or nest and population monitoring
- * strong organisational skills, are a team player willing to work with a diverse group of researchers and technicians, and have the ability to work independently
- * strong communication skills and are able to lead a team of students and technicians under difficult field conditions
- * good quantitative skills in statistics, and preferably in phylogenetic analysis
- * excellent English language proficiency (a minimum of CEFR C2 level). For more information about this proficiency level, please visit our special language page

For more information about this position, please contact Sjouke A. Kingma < <https://www.vcard.wur.nl/Views/-Profile/View.aspx?id=86155> >, Associate Professor in Behavioural Ecology, by e-mail Sjouke.kingma@wur.nl.

"Kingma, Sjouke" <sjouke.kingma@wur.nl>

WesternSydneyU FruitflyEvolutionaryEcology

PhD position; Fruit fly evolutionary ecology, Hawkesbury Institute for the Environment, Western Sydney

University, Australia

One PhD scholarship is available for a highly motivated and enthusiastic candidate to investigate life history traits of Queensland fruit fly (Qfly) from both ecological and evolutionary perspectives. Qfly is Australia's most significant horticultural pest. Pupation and complete metamorphosis are key evolutionary innovations of insects, with massive changes in morphology, physiology, microbiomes and behaviour. In nature, late instar Qfly larvae leave infested fruit and pupate in the soil from where adult flies emerge. In the soil, individuals are exposed to many biotic (e.g. pathogens) and abiotic (e.g. suffocation) challenges. Knowledge about Qfly pupation biology and ecology is scarce. For SIT, mass-rearing requires a pupation substrate, optimal environmental conditions and careful processing of pupae. This project will study Qfly pupation biology and ecology in natural environments, assess optimal densities and climatic conditions in controlled environments, and test different pupation substrates to evaluate their impact on Qfly life history traits, performance and health.

The PhD project is based at the Hawkesbury campus of Western Sydney University in Richmond (NSW) in the Sydney Basin and at the foothills of the Blue Mountains. Our collaborating partners are Primary Industries and Regions South Australia (PIRSA), the national SIT Qfly facility in Port Augusta and other research partners. Since its foundation HIE has rapidly built a strong research reputation in ecology and evolution, and a vibrant team of over 50 academic research scientists and 80 PhD students with access to a unique suite of world-class research facilities and laboratories.

Below a links to the website with the advertisement/application portal:

https://www.westernsydney.edu.au/-graduate_research_school/grs/scholarships/-current_scholarships/current_scholarships/-hie_pupation_biology_and_ecology_of_queensland_fruit_fly
APPLICATION DEADLINE: 31 January 2022.

For further information please contact Associate Professor Markus Riegler <m.riegler@westernsydney.edu.au>

Markus Riegler <M.Riegler@westernsydney.edu.au>

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AMNH NewYork ResAssit AncientBiomolecules

Job: Ancient Biomolecules Research Assistant

Job summary: This position is for a Research Assistant to handle day-to-day responsibilities and aid in management of a new NSF-funded ancient biomolecules laboratory at the American Museum of Natural History. The Research Assistant should have experience with degraded/ancient DNA and downstream sequencing applications, with similar experience with paleo-proteins preferred. This is a one-year appointment, with the possibility of renewal for up to two additional years. The first year will be dedicated to setting up the laboratory and equipment, generating standard operating procedures, validating protocols, and aiding first time lab users. The Research Assistant will also be responsible for maintaining the laboratory, updating protocols, and contributing to teaching materials. Additional years will require a portion of the Research Assistant's time be spent assisting with genomics projects conducted by principal investigators in the Museum's Institute for Comparative Genomics, besides assisting with operation of the ancient biomolecules lab.

Responsibilities:

The Ancient Biomolecules Research Assistant has the

following responsibilities and duties:

Aid in set up and maintenance of the ancient biomolecules laboratory, including but not limited to maintenance of equipment, stocking of laboratory supplies and reagents, and maintaining a clean-room environment
Development of laboratory standard operating procedures
Optimization of laboratory protocols, specifically for degraded DNA and proteins
Training and assisting users in ancient DNA and paleoproteomic laboratory procedures
Other duties relevant to lab management such as troubleshooting protocols, lab calendar management, and coordination with researchers/staff

Requirements:

The Ancient Biomolecules Research Assistant should have the following skills, education, and experience:

Bachelor's degree in biology or related field; Master's degree preferred
Experience in DNA extraction and purification from degraded samples; additional experience with protein extraction and purification preferred
Experience with protocols for degraded DNA, such as previous work with historic/ancient biological specimens, forensic genetics, and/or paleogenomics
Experience handling and sampling from historic/ancient biological specimens
Experience working in a clean-room and adhering to clean-room protocols
Strong organizational skills and ability to manage a clean-room laboratory facility
Familiarity with next-generation sequencing sample preparation preferred
Prior lab management experience is preferred
Strong oral and written communication skills
Experi-

ence with Microsoft Office programs (e.g. Word, Excel, PowerPoint) and Google productivity apps (e.g. Docs, Sheets, Slides, Drive, Calendar, Forms)

Please apply here: <https://careers.amnh.org/postings/-2659> Anthony Caragiulo, Ph.D. Assistant Director of Genomic Operations Institute for Comparative Genomics American Museum of Natural History 79th Street at Central Park West New York, NY 10024 212-313-7602 acaragiulo@amnh.org

Anthony Caragiulo <acaragiulo@amnh.org>

BenGurionU EvolutionaryBiology

Dear all, The deadline for the below application is approaching (February 15th 2022), please do not forget to submit your application.

Best regards, Hadas

From: אָנאָן אַרַגִּיּוּלוֹ

Sent: Thursday, December 23, 2021 4:19 PM Subject: Tenure track position in evolutionary biology, ecology, and conservation biology

Dear all,

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

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

The MDDE is a well-established department, with an international reputation. Its faculty members conduct research in various fields, including evolutionary ecology, behavioral ecology, disease and microbial ecology, population and community ecology, conservation, con-

servation genetics, conservation behavior, agroecology, and human-nature relationships. MDDE members maintain extensive national and international partnerships, and advise and collaborate with government agencies and NGOs.

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

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

Interested candidates should submit their applications no later than February, 15th 2022 through the following link:

https://bguacademicrecruitment.force.com/-Recruiters/VF_BGUPositions?Id=02i5I000007u5S0, but the application will stay open until the position is filled.

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

Happy holidays, Hadas

Hawlena Hadas <hadashaw@bgu.ac.il>

BotanischerGarten Berlin DirectorDiversityEvolution

Dear EvolDir Community,

Botanischer Garten Berlin is looking for an Academic Director to lead the Department "Diversity and Evolution": https://www.fu-berlin.de/universitaet/beruf-karriere/-jobs/nichtwiss/59_ze-botanischer-garten-botanisches-museum/BG-BGBM_Abteilungsleitung.html Kind regards Eva Hießner

Dr. Eva Hießner Science Policy Coordinator
Botanischer Garten Berlin

Telefon: +49 30 838 59964 Mobil: +49 30 176 183 850
63 e.haeffner@bo.berlin

Freie Universität Berlin ZE Botanischer Garten
und Botanisches Museum Berlin Künigin-Luise-

Stralße 6-8 14195 Berlin

#BoBerlin Internationales

Wissenszentrum

der Botanik

“Hi, Eva” <E.Haefner@bo.berlin>

“Hi, Eva” <E.Haefner@bo.berlin>

CambridgeU ResAssist TransmissibleCancer

Transmissible Cancer Group, Prof Elizabeth Murchison University of Cambridge Department of Veterinary Medicine Research Assistant / Research Associate - Evolution of transmissible cancers

Limit of Tenure: 36 months.

The Transmissible Cancer Group at the University of Cambridge, Department of Veterinary Medicine, is seeking to appoint a Research Assistant or Postdoctoral Research Associate to join a dynamic team studying the evolution and host interactions of transmissible cancers in dogs and Tasmanian devils. This is a fixed-term 3-year position supported by a Wellcome research grant. This post is expected to start on 1st May 2022 but there is some flexibility for an earlier or later start date.

Transmissible cancers are long-lived clonal lineages of malignant cells that operate as infectious parasites, spreading between individuals by the physical transfer of living cancer cells. Among mammals, such diseases have been described in only two species: dogs and Tasmanian devils, and are spread by mating and biting, respectively. These extraordinary cell lineages provide an opportunity to study cancer evolution over the long-term, and to investigate the interaction between cancer cells and the allogeneic immune system. Furthering our knowledge of these diseases may also shed light on their transmission dynamics and inform conservation work.

This position is suited for someone with skills in computational biology and an interest in cancer evolution and tumour immunology. The role-holder will analyse genome, transcriptome and single-cell RNA sequencing (scRNAseq) data from tumours belonging to transmissible cancer lineages. We will annotate genetic variants and use these to understand past and ongoing mutational and evolutionary processes, including the impact of mutation on gene expression and tumour phenotypes. Using scRNAseq data, we will seek to understand the

contribution of host cells to the tumour microenvironment. By integrating data from hundreds of tumours, our goal will be to understand how cancers exploit a transmissible niche, and how the interaction between cancer and immune system controls disease outcome.

Applicants should hold a Masters degree (Research Assistant) or PhD (Postdoctoral Research Associate) in computational biology or a related discipline, and experience in genome analysis is preferable. The candidate must value teamwork and collaboration, have good organisational and interpersonal skills, and should be able to effectively manage their time. They will have the opportunity to make their own original contribution to the field of study within the framework of the project. If applying at the Research Assistant level it may be possible for the role-holder to register as a PhD student.

More information about the Transmissible Cancer Group can be found on our website at www.tcg.vet.cam.ac.uk, and information about the Department of Veterinary Medicine can be found at www.vet.cam.ac.uk. Informal enquiries should be directed to Prof Elizabeth Murchison (epm27@cam.ac.uk), and enquiries about the application process should be directed to Deborah Collett (dc748@cam.ac.uk). Further particulars for the role can be accessed at www.vet.cam.ac.uk. Applicants should submit a CHRIS/6, CV, covering letter outlining suitability for the role and contact details for two referees. Please note that shortlisted candidates will be expected to make a presentation at interview.

Please ensure that you upload your Curriculum Vitae (CV) and a covering letter in the Upload section of the online application. Any additional documents, which have not been requested, will not be considered as part of your application.

Closing date 25 February 2022 Interviews will be held on 16 March 2022

Elizabeth Murchison <epm27@cam.ac.uk>

ClemsonU 3 TeachingEvolution

Multiple Teaching-Track positions at Clemson in Intro Bio, Ecology, Evolution, Organismal Biology, Animal Physiology

For full consideration, applications should be submitted by January 24, 2021: <http://apply.interfolio.com/100288>. Position Description The Department of Biolog-

ical Sciences at Clemson University invites applications for up to three full-time, 9-month Lecturers to begin August 15, 2022. We seek candidates with interest and experience in teaching Introductory Biology and delivering courses and laboratories in areas including, but not limited to, evolutionary biology, organismal biology, ecology, animal physiology, and cell biology. We are expanding our faculty with dedicated, innovative individuals who will strengthen and broaden student-centered learning in the Department. Teaching responsibilities during the academic year would include a combination of the following: 1) Introductory Biology for majors or non-majors; 2) undergraduate lecture and lab courses in the candidate's area(s) of expertise and in areas of departmental need; and 3) online courses for the online M.S. in Biological Sciences program. There are also summer salary opportunities available for teaching on-campus, online, and study abroad.

Successful candidates will have a desire to join fully in the varied activities of our large department and to take on service responsibilities as they progress through the non-tenure ranks of Lecturer, Senior Lecturer, and Principal Lecturer. Salary level will be commensurate with education and experience, and a benefits package is included.

Department Description The Department of Biological Sciences at Clemson University includes faculty with expertise across the areas of ecology, evolution, and organismal biology; microbiology; molecular, cellular, and developmental biology; and environmental toxicology to advance the University's discovery mission and to provide strong educational programs at both the undergraduate and graduate levels. The Department, located within the College of Science, is home to 50 full-time faculty, including 16 lecturers, supporting research and degree programs in Biological Sciences, Microbiology, and Environmental Toxicology. The Department's student population includes over 1700 undergraduate students in the B.A. and B.S. degree programs in Biological Sciences and the B.S. degree program in Microbiology. The Department also has 70 graduate students in M.S. and Ph.D. programs in Biological Sciences, Microbiology, Environmental Toxicology and 200 students in the online M.S. program in Biological Sciences for Science Educators. For more information about the Department of Biological Sciences at Clemson University, please visit the Department's website at <http://www.clemson.edu/science/departments/biosci/>. **Qualifications** Successful candidates should hold a Ph.D. in biological sciences or a related discipline at the time of appointment. Ideal candidates will have demonstrated successful experience teaching university-level biology lecture and laboratory courses and have a strong interest in online teaching.

Application Instructions Applicants should submit the following items through Interfolio at <http://apply.interfolio.com/100288>: (1) cover letter detailing why the applicant would like to join the Department of Biological Sciences at Clemson University; (2) curriculum vitae; (3) statement of teaching philosophy, experience, and interests with attention to describing strategies for fostering diversity and inclusion; (4) course evaluations, peer evaluations, or other evidence of past teaching performance; and (5) names and contact information for three professional references*.

Inquiries should be directed to Professor Christine Minor, chair of the search committee (mmminor@clemson.edu). For full consideration, applications should be submitted by January 24, 2021. The position will remain posted until the position is filled.

*Note: References will not be contacted until the final stages of the interview process.

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

Margaret B. Ptacek, PhD Clemson University Professor
Biological Sciences Director

Margaret Ptacek <mptacek@clemson.edu>

DonanaBiolStation Spain EvolutionaryBiol

Junior Group Leader positions at Doñana Biological Station:

The Doñana Biological Station (Estación Biológica de Doñana, EBD; Seville, Spain) is seeking to incorporate Junior Group Leaders through the Ramón y Cajal program, financed by the Spanish government.

We are looking for researchers that have leadership skills and an excellent track record in evolutionary biology, conservation biology, ecology or global change. This opportunity is open to researchers of all nationalities. Candidates should have a PhD title obtained between January 1st 2011 and December 31st 2019. Contracts

have a duration of 5 years and candidates are eligible to apply to permanent positions. These contracts come with startup funds of euro 42,000, and awardees can independently apply for competitive research funds at Spanish and international calls and recruit PhD students and postdocs.

The Estación Biológica de Doñana is an institute of the Spanish National Research Council (CSIC). EBD has close to 200 employees, including 44 permanent researchers, plus postdoctoral fellows, PhD students, field and lab technicians, and administrative personnel. EBD has several unique aspects: -EBD manages two field reserves, one within Doñana National Park (Huelva, Spain) and the other in the Sierra de Cazorla, both devoted to ecological and evolutionary research. However, EBD researchers carry out their research all over the world. -The field reserve in Doñana National Park is a Singular Scientific-Technical Infrastructure (ICTS-RBD) that offers services and facilities to national and international researchers. -The institute, located in Seville, is equipped with six laboratories maintained by technical staff, that offer services to all researchers: Molecular Ecology, GIS and Remote Sensing, Chemical Ecology, Aquatic Ecology, Ecophysiology, Stable Isotopes. -The institute has also an Animal Experimentation Unit and a green house. This includes 11 walk-in climatic chambers and animal care facilities. Our Animal Welfare personnel train and conduct certification courses for our personnel. -The institute houses the second largest scientific collection in the country which focuses on vertebrates and includes over 100,000 specimens. -We actively participate in MSc and PhD programs at the University of Seville and Pablo de Olavide University. We also host PhD students from many other national and international universities as well.

Despite the rich resources available to scientists at EBD, the main advantage of EBD is the quality of the researchers. Several of them are among the most cited researchers in their fields and are internationally recognized. EBD is currently looking to expand the number of investigators and lines of research through the recruitment of young, engaged and brilliant minds. EBD welcomes researchers from all over the world.

Timeline for applications: January 18th to February 8th— 2022. International applicants may have to submit the application from Spanish Embassies or Consulates. Applicants need to submit short CV, and description of main research achievements. Website for information and application: <https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-ramon-cajal-ryc-2021> We encourage potential applicants to check requirements as soon as possible to avoid last-minute problems.

If you need any additional information about the Estación Biológica de Doñana, please check <http://www.ebd.csic.es/inicio> or contact us at proyectos@csic.es

Carles Vilà Vicedirector de Investigación / Deputy Director of Science Estación Biológica de Doñana-CSIC /Doñana Biological Station-CSIC Avd. Americo Vesputio 26 41092 Seville (Spain) <http://www.ebd.csic.es/> Carles Vila <carles.vila@ebd.csic.es>

DukeU TeachingEvolution

The Department of Biology at Duke University invites applications for a Senior Lecturer position, to start in July or August 2022. We are seeking candidates with significant experience and expertise in curriculum design and assessment, as well as experience with college-level teaching. The Senior Lecturer will also have important administrative responsibilities aligning our department's coursework and degree program with the recommendations of the Vision and Change in Undergraduate Biology program spearheaded by the American Association for the Advancement of Science (AAAS). Finally, the Senior Lecturer will help guide and lead assessments that evaluate the success and effectiveness of the curriculum. This is a non-tenure track, regular rank renewable contract faculty position with no independent research requirement.

Applicants should have a PhD degree in biology or one of its subfields, significant experience in teaching either large classes or lab courses at the collegiate level, and prior experience with curriculum assessment and reform. We are particularly interested in candidates with expertise in structuring courses and curriculum that demonstrably enhance learning equity among students with varied preparation for coursework in college Biology. Deadline 15 February 2022.

Details and application link at: <https://academicjobsonline.org/ajo/jobs/20956> noor@duke.edu

@NRascovan email: nicolas.rascovan@pasteur.fr

Nicolas RASCOVAN <nicolas.rascovan@pasteur.fr>

IGC Portugal Evolutionary Biology

The Instituto Gulbenkian de Ciência (IGC, Lisbon, Portugal) is opening a call to recruit PIs to lead research groups

The IGC is very open regarding scientific diversity and is interested in theoretical and non theoretical work, in ecology, evolutionary biology, conservation, molecular biology, etc.

Check for yourself: <https://gulbenkian.pt/ciencia/> best wishes, Lounes Chikhi

“Lounes Chikhi (Univ Toulouse)” <lounes.chikhi@univ-tlse3.fr>

Inst Pasteur Paris Bioinformatics

Dear all,

My team (The Microbial Paleogenomics Unit at Institut Pasteur in Paris) has opened a permanent (lifetime) position for a research engineer in bioinformatics, to work in the analysis of paleogenomic data (ancient DNA from microbes and humans).

All the detailed information about the position, the main activities to be carried and the expected skills can be found in the attached PDF or the link below (and a brief visual ad in the picture that follows) For those interested, you can send me an email to nicolas.rascovan@pasteur.fr, or directly apply in the link below. Else, if you could help me with the dissemination of this offer in social media, with your colleagues, etc., I would deeply thank you!

Here the link with details about the offer and how to apply <https://research.pasteur.fr/en/job/research-engineer-in-bioinformatics-applied-to-paleogenomics-data/> Best wishes to all,

Nicolás Rascovan, PhD

Head of Microbial Paleogenomics Unit Department of Genomes and Genetics CNRS UMR 2000 Institut Pasteur 25-28 rue du Dr Roux 75724 PARIS CEDEX 15, France phone: +33 1 86 46 72 72 website

KBS-Michigan State U Hannah Chair Evolution Ecology

Hannah Distinguished Professor of Ecology and/or Evolutionary Biology

The W.K. Kellogg Biological Station (KBS) at Michigan State University (MSU) seeks a leading ecologist and/or evolutionary biologist to fill a prestigious Hannah Distinguished Professorship. The successful candidate will have a national and/or international reputation as a leader in the field. The ideal candidate will be interactive with research interests that complement a diverse group of ecological and evolutionary scientists working at a world-renowned field station (<http://kbs.msu.edu/>) This position comes with a research endowment.

The Hannah Distinguished Professor is a tenure-stream faculty appointment at the Full Professor rank. It will be based at KBS, with a joint appointment and tenure home in one or more campus departments that best match the candidate's interests. In addition to KBS-based faculty, there are opportunities to collaborate with campus-based colleagues in many departments including Earth and Environmental Sciences; Entomology; Fisheries and Wildlife; Forestry; Geography, Environment, and Spatial Sciences; Integrative Biology; Microbiology and Molecular Genetics; Plant Biology; and Plant, Soil, and Microbial Sciences; and broadly through the Ecology, Evolution, and Behavior (EEB) interdepartmental graduate program.

Teaching may include an undergraduate or graduate course as well as graduate and postdoctoral training and participation in KBS academic programs. Service will include participation in KBS, campus, national, and international programs, as appropriate.

Required qualifications include a Ph.D. or equivalent in biology, ecology, evolution, environmental science, or a related field. Evidence of national and/or international recognition as a leader in the field is expected. Important criteria for meeting the position's expectations include impactful peer-reviewed publications, sustained record of support for research program, a compelling vision for future research, a record of outreach to broader audiences including communities that are under-served in science, and other evidence of scholarly achievements.

The search committee is especially interested in candidates who, through their research, teaching, and/or service will contribute to the diversity and excellence of the KBS and campus academic community.

Applications should include: (1) a cover letter describing the applicant's interest in the position; (2) a curriculum vitae; (3) contact information for three references; (4) a statement of research and mentoring accomplishments and future research directions (up to 3 pages); and (5) a statement of education and outreach interests and experience (up to 2 pages). The research and education statements should include descriptions of the applicant's past and planned commitment to promoting diversity, inclusion, and equity in research, teaching, and outreach. References will be contacted for those who we interview. Applications should be compiled as a single pdf file. Apply at <https://careers.msu.edu/en-us/job/509046/-hannah-distinguished-professor> Review of applications will begin January 31, 2022 and will continue until a suitable candidate is identified. Questions regarding this position may be directed to Dr. Nick Haddad, search committee chair (haddad@kbs.msu.edu).

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

MaxPlanckInst ImmunogeneticsBioinformatics

Job offer from January 24, 2022

The Max Planck Institute of Immunobiology and Epigenetics is looking for a Bioinformatician (m/f/d) in Immunogenetics. The position will be available in the Boehm department. The Boehm group addresses a number of cutting-edge research questions related to the development and evolution of the vertebrate immune system (for recent review see, *Annu Rev Immunol* 36, 19,2018; *Annu Rev Anim Biosci* 2, 259,2014; *Nat Rev Immunol* 13, 831,2013). To support these studies, we seek an experienced bioinformatician with a strong background in sequencing data analysis, statistics and, ideally, prior exposure to immunogenetics studies.

This position is open immediately and funded for two years, with the possibility of extension.

The Max Planck Institute of Immunobiology and Epigenetics (MPI-IE) in Freiburg, Germany is an interdisciplinary research institution that conducts basic research in two key areas of modern biology: Immunobiology and Epigenetics. Central questions address the molecular

basis of cell type identities, as they are regulated during immune cell differentiation, metabolic response and epigenetic chromatin adaptation. Your opportunities:

As an embedded bioinformatician, you will have the opportunity to contribute directly to multiple research projects, from experimental design to data analysis and interpretation. You will interact with a strong, interdisciplinary bioinformatics and deep sequencing team that provides access to a large Sequencing Facility (HiSeq3000, HiSeq2500, NextSeq500, Oxford Nanopore), as well as a high-performance Data Center with integrated Petabyte-scale storage solutions and established data processing pipelines and analysis frameworks. Your tasks:

Responsibilities include:

- Design of sequencing experiments - Processing and quality control of NGS datasets of whole genome and amplicon bisulfite sequencing - Discovery of differentially methylated regions - Variant calling - Analysis of differential gene expression (bulk and single-cell RNA) and gene module calling - TCR clonotyping - Analyses of sequence homologies and conservation - Reference genome and transcriptome assembly and annotation in non-model organisms - Phylogenetic and comparative genomics analyses - Development and implementation of custom analysis pipelines in collaboration with wetlab scientists

Your qualifications:

We are looking for a dedicated and motivated team player with strong communication skills and good command of the English language, holding a MSc or PhD degree in bioinformatics or biology with a clear computational component. The successful applicant will have a proven record in the analysis of large, high-dimensional genome-wide datasets and computational skills (Python or R) in a Linux environment. Additional pluses include experience in the following:

- high-performance computing in a cluster environment (e.g. slurm) - Modern software development, deployment (conda), and version control (git) - workflow management (snakemake) and documentation (notebooks) - advanced statistical data analysis

We offer:

Located in a region that connects Germany, France and Switzerland, our institute offers an international research environment with outstanding infrastructure facilities and a positive working atmosphere that places a high value on work-life balance.

- Salary according to your qualification and professional experience according to $TV_{i;\frac{1}{2}}D$ - Social benefits in

line with public service - Professional training and development opportunities - Challenging work in a modern working environment - Family-friendly offers (affiliated day care center at the institute, parent-child room, breastfeeding room, pme family service)

We value and promote diversity, inclusion and equal opportunities, so we welcome applications from all backgrounds. We particularly welcome applications from severely disabled people. We would also like to increase the proportion of women in areas where they are under-represented and therefore expressly encourage women to apply. A pplication deadline:

Have we sparked your interest? Please submit your complete application documents including a 1 page motivation summary, CV and contact details of referees via our online application portal by March, 31st, 2022. For informal inquiries please contact: boehm@ie-freiburg.mpg.de

Max Planck Institute for Immunobiology and Epigenetics
Ms. Schieler-Ott Stübgenweg 51 79108 Freiburg
Germany

https://www.ie-freiburg.mpg.de/5683880/-job_full_offer_18158655?c=4799908 Malte Petersen
<petersen@ie-freiburg.mpg.de> Malte Petersen
<petersen@ie-freiburg.mpg.de>

MonmouthU Tech UrbanEvolution

Urban Evolution Technician at Monmouth University

The Phifer-Rixey Lab at Monmouth University is seeking applications for a temporary technician in the Biology Department, which is part of the School of Science. The lab is engaged with a variety of projects focused on evolutionary genetics in wild populations. The successful candidate will work closely with Dr. Phifer-Rixey on a new project investigating the genetics of urbanization in house mice.

The technician will help organize and execute sampling of wild house mice as well as laboratory and behavioral assays. This position will also provide opportunities to participate in manuscript writing, presentations at scientific meetings, and outreach and education activities. This is an NSF grant funded position with a one-year contract. Review of applications will begin immediately and continue until the position is filled.

A complete list of job duties is available at <http://jobs.monmouth.edu> . < <https://jobs.monmouth.edu/>

[postings/14475](#) >

Department of Biology

Monmouth University

phiferrixeylab.com

“Phifer-Rixey, Megan” <mpphiferr@monmouth.edu>

Munich FieldAssist Feb-Jun

The Division of Evolutionary Biology at the Ludwig Maximilian University in Munich, Germany (see https://evol.bio.lmu.de/research/j_wolf/index.html), is seeking a field assistant (m/f/d) to begin work in February until June 2022.

The assistant will collect phenotypic data on alpine and willow tits (*Poecile montanus montanus* and *P. m. salicarius*) across a 70 km wide hybrid zone in one of Germany's nicest landscapes in the foothills of the Alps.

The activities will include: - catching birds using mist nets - measuring and banding birds - recording song - data collection, entry, and management

The successful candidate must have experience in catching and handling birds, including extensive experience in mist netting. Applicants should also be highly motivated and well organized, with capabilities of working independently.

The working language is either English or German. A full, clean driver's license is essential, with driving experience of at least one year. Experience in driving vehicles with manual transmission is also a necessity. Applicants from outside the EU must ensure they are eligible to remain in Europe for the duration of their contract.

Vaccination against Tick Borne Encephalitis (TBE or FSME) before commencing the field work is recommended to all successful candidates. In addition, applicants should be aware that Lyme disease spread by ticks is common in the area, and should inform themselves about the disease in advance.

Review of applications and calls for interviews will begin as applications come in. Please apply (including your CV and a short cover letter in one PDF document) via email to knief@bio.lmu.de

Ulrich Knief Division of Evolutionary Biology Faculty of Biology Ludwig Maximilian University of Munich
Grosshaderner Strasse 2 D-82152 Planegg-Martinsried

Ulrich Knief <knief@biologie.uni-muenchen.de>

“Fleischer, Robert” <FleischerR@si.edu>

Seattle Bioinformatics

Bioinformatics Research Associate II

[https://urldefense.com/v3/_https://careers-seattlechildrens.icims.com/jobs/42736/-bioinformatics-research-associate-ii/job?mode=view_!!NuzbfyPwt6ZyPHQ!4p71DVK1KyIVCqVMjSwXDRFJmJyRLoif64PBSyIB0H0q7KMD5KsNxiNS3tYwn8zZ.csJsyNQ\\$](https://urldefense.com/v3/_https://careers-seattlechildrens.icims.com/jobs/42736/-bioinformatics-research-associate-ii/job?mode=view_!!NuzbfyPwt6ZyPHQ!4p71DVK1KyIVCqVMjSwXDRFJmJyRLoif64PBSyIB0H0q7KMD5KsNxiNS3tYwn8zZ.csJsyNQ$)

Ashley Vaughan Center for Global Infectious Disease Research Seattle Children’s Research Institute 206-884-3232 OFFICE 206-369-5181 CELL ashley.vaughan@seattlechildrens.org OFFICE 307 Westlake Ave N, Seattle, WA 98109 WWW seattlechildrens.org

pronouns: he/him/his

“Vaughan, Ashley” <Ashley.Vaughan@seattlechildrens.org>

Smithsonian LabTech Conservation Genomics

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.

Spelman College Atlanta ResTech Microbe Evolution

Applications are invited for a full-time research technician in the Tekle lab in the Biology Department at Spelman College Atlanta, GA. General Research areas in the laboratory include eukaryotic microbial evolution and behavior with emphasis in amoeboid microorganisms. The technician is expected to carry out isolation, culturing and maintaining of microorganisms, molecular and behavior studies. Duties will include: DNA/RNA extraction, PCR and mutagenesis, NGS as well as light and fluorescence microscopy; supervising undergraduate researchers; general lab maintenance.

The candidate should have a Bachelor’s degree in biology (Masters and PhD level as postdoctoral also encouraged to apply), molecular biology, biochemistry, bioinformatics or a related discipline and 1-2 years of relevant research experience or equivalent combination of experience, training and/or education is required. The ideal candidate will have experience with basic molecular techniques (DNA extraction, PCR), limited field experience, good organizational skills and attention to detail, and an ability to work well with and supervise undergraduate students. Previous experience working with microorganisms and basic programming (bioinformatics) skills are desirable.

This is a full-time, one-year. Salary is commensurate with experience and includes benefits.

Please email a letter of interest, CV, and names of and contact information for 2 references to ytekle@spelman.edu. For more information about the lab: <http://faculty.spelman.edu/yonastekle/>. Please feel free to email me with questions at the above email address.

Yonas Tekle Associate Professor Department of Biology Spelman College 350 Spelman Lane SW Atlanta, GA 30314-4399 Office: 404-270-5779

Yonas Isaak Tekle <yonastekle@gmail.com>

UCentralFlorida EvolutionaryBiology

Job ad is fully listed here: <https://jobs.ucf.edu/cw/en-us/job/501613/assistant-professor-integrative-biology>

And basic description is here:

Assistant Professor in Integrative Biology

The Department of Biology at the University of Central Florida (UCF) invites applications for a tenure track Assistant Professor position (9-month appointment), anticipated to begin Fall 2022. We seek an integrative biologist working in freshwater or terrestrial systems with preference for research in eco-immunology, eco-physiology, molecular ecology, or animal neurobiology/neuroethology, or another area that complements departmental expertise. The ideal candidate will show: (a) potential to develop and maintain an extramurally funded research program including research opportunities for graduate and undergraduate students, and (b) commitment to inclusive excellence in teaching, effective student mentoring, and strong academic support for our diverse student population. Teaching duties include 1 course per semester; subjects to be determined. A demonstrated ability to collaborate with other disciplines is desirable.

Applicants must have a Ph.D. from an accredited institution. The ideal candidate will have postdoctoral training or work experience. Applicants must complete a job application at <http://ucf.edu/jobs> (job number 501613) and upload a single PDF document that includes: (1) a cover letter that explains how their research is integrative and complements current departmental expertise; (2) a curriculum vitae; (3) a research interests and plans statement (limit to 2 pages); (4) a teaching statement including philosophy for pedagogy and mentorship and potential courses the candidate could teach or develop (1 page); (5) a diversity statement which explains how the applicant has advanced diversity, equity, and inclusion in science, and how the applicant would continue to do so as a faculty member in the department (1 page); and (6) contact information for three professional references. If applicable, candidates may include in their cover letter how the Covid-19 pandemic has affected their career trajectory. All applications must be received by Feb 3, 2022 for full consideration. Questions regarding the position should be directed to Dr. Barbara Sharanowski, Chair of Search Committee Chair at barb.sharanowski

[at] ucf.edu and must include the job number in the subject line.

The Department of Biology administers both a Ph.D. program in Integrative and Conservation Biology and a Master's program in Biology. Our facilities include a genomics core laboratory, on-campus greenhouse, and an 800-acre arboretum. Please see <https://sciences.ucf.edu/biology> and <https://sciences.ucf.edu/> for more information. Located in Orlando, Florida, UCF is classified as a Very High Research Activity university by the Carnegie Foundation. With a diverse and large (70,000) enrollment, UCF is one of the largest universities in the country, with 200 degree programs. UCF is committed to diversity and is designated a Hispanic Serving Institution. For more information, visit <http://www.ucf.edu/faculty>. We seek candidates who will enhance our representational diversity and whose research, teaching, and community engagement efforts contribute to diverse, equitable, and inclusive learning and working environments for our students, staff, and faculty. We hope to identify individuals who will assist in our mission to ensure that minoritized groups have the opportunity to succeed at UCF. As an equal opportunity/affirmative action employer, UCF encourages all qualified applicants to apply, including women, veterans, individuals with disabilities, and members of traditionally underrepresented populations. UCF's Equal Opportunity Statement can be viewed at: <http://www.oie.ucf.edu/documents/PresidentsStatement.pdf>. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

Dr. Barb Sharanowski Associate Professor Department of Biology University of Central Florida

Barbara Sharanowski <Barb.Sharanowski@ucf.edu>

UGroningen ComputationalBiology

Subject: Tenure-track assistant professor position in theoretical/computation biology at the Groningen Institute for Evolutionary Life Sciences, University of Groningen, The Netherlands

The Groningen Institute for Evolutionary Life Sciences at the University of Groningen, The Netherlands has opened a tenure-track assistant professor position for a theoretical and/or computational biologist. For more information and submitting an application, please see <https://www.rug.nl/about-ug/work-with-us/job->

[opportunities/?details=00347-02S0008V5P&cat=wp](#) .
 “Rampal S. Etienne” <r.s.etienne@rug.nl>

Ullinois AdaptiveAnimalGenomics

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.

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 Initiative (<https://personalizednutrition.research.illinois.edu/>)

The College of Agricultural, Consumer and Environmental Sciences (ACES) (www.aces.illinois.edu) is widely recognized for excellence in undergraduate and graduate education, research, outreach, and international programs. In addition to its mission as a land-grant university, the campus offers exceptional programs in the arts,

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This message has been arbitrarily truncated at 5000 characters.

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

ULisbon ResTech ExptEvolution

The Centre for Ecology, Evolution and Environmental Changes (University of Lisbon), is looking for a research technician in experimental evolution. The technician will work on a project investigating the evolution of reproductive isolation in *C. elegans*, under supervision of Dr. Bruno Nevado (<https://ce3c.ciencias.ulisboa.pt/member/brunonevado>) and Dr. Ivo Chelo (<https://sites.google.com/view/eco-evolutionarygeneticslab/home>).

The position will ideally start in March 2022, and is funded for 21 months. It would suit recent University graduates looking to gain experience in research before embarking on a post-graduate study program.

The main responsibilities include maintenance of experimental lines of *C. elegans* and assessment of their fitness throughout the experiment. We are preferably looking for candidates with experience in laboratory work, but training will be provided to successful candidates without such skills but with a keen interest in research in evolutionary biology.

Application deadline is approaching soon (call closes on 14th February) so apply now if interested: <https://euraxess.ec.europa.eu/jobs/733894>. For informal inquiries please contact Bruno Nevado (bnevado@fc.ul.pt).

Dr. Bruno Nevado Researcher Centre for Ecology, Evolution and Environmental Changes cE3c University of Lisbon, Portugal

Bruno Nevado <bnevado@fc.ul.pt>

UMaryland ResTech AnimalTrackingDatasets

The Fagan lab in the Biology Department at the University of Maryland is seeking a Statistical Programmer / Research Technician to assist with global-scale analyses of multispecies animal tracking datasets. The position

can begin immediately and can continue to 31 May 2023. Extension beyond this period is possible pending available funding and satisfactory performance. The opportunity features a competitive salary plus benefits.

The successful candidate will be part of an established animal movement analytics research team. Building on a long-term research program in animal movement analytics (e.g., Mueller et al. 2013. *Science*; Fleming et al. 2015. *Ecology*; Noonan et al. 2019. *Ecological Monographs*; Mallon et al. 2021. *Movement Ecology*), this position will focus on leveraging existing multispecies tracking datasets to compare and contrast patterns of animal space use across species.

Specific tasks will be to:

- Examine how various aspects of movement behavior vary with phylogeny and body size, across different habitat types, and as a function of other covariates;
- Work with our team to identify appropriate empirical examples for demonstrating the performance of novel analytical methods.

- Contribute to publications in academic, peer-reviewed journals;

Required:

- M.S. (preferred) or B.S. degree in statistics, quantitative ecology, data science, or a related field.
- Excellent programming skills in R.
- Advanced data analysis and statistical modeling skills.
- Excellent communication skills in English.

Preferred:

Experience with animal movement analysis is advantageous.

To apply, send a CV / resume and a statement of interest to:

bfagan@umd.edu

For more background on the Fagan lab, see:

<http://science.umd.edu/biology/faganlab/> <https://scholar.google.com/citations?hl=en&user=1Apw3oUAAAAJ> Bill Fagan <bfagan@umd.edu> Bill Fagan <bfagan@umd.edu>

UMichigan EvolutionZoonoticPathogens

Faculty Position in Ecology and Evolution of Zoonotic Pathogens Directory of Pathogen Biorepository

The Department of Ecology and Evolutionary Biology (EEB) and the Michigan Center for Infectious Disease Threats (MCIDT) invite applications for a full-time tenured or tenure-track position at the intersection of ecology, evolution, and epidemiology of zoonotic pathogens. The anticipated start date will be August 29, 2022. The successful applicant will maintain a thriving research program and serve as the Director of a new Pathogen Biorepository (M-PABI). M-PABI is part of the broader campus-wide MCIDT initiative aimed at increasing capacity for, and coordination of studies of, emerging infectious diseases at the University of Michigan. Successful candidates will have research programs that engage a One Health approach to understanding and predicting emergent zoonotic threats and address disease ecology and evolution, relationships between environmental health, host biodiversity and epidemiology, host-pathogen interactions, and related areas. We specifically seek individuals with strengths in developing research coordination networks, acquiring and utilizing collections-based pathogen surveillance data, and quantitative methods for integrating such data with models for monitoring and predicting zoonotic emergence. Successful applicants will present a clear vision for the role of the new biorepository in studying emerging infectious diseases. The successful candidate, as a member of the EEB Museums, will have opportunities for curation and research using world-class biodiversity collections in a modern facility.

The University of Michigan is located in Ann Arbor, a vibrant community with excellent schools and amenities, and proximity to both natural areas and the city of Detroit.

All application materials should be submitted online through webapps.lsa.umich.edu/Apply/EEB. Materials should include a cover letter, CV, a concise (2-4 page) statement describing current and future research plans, a statement of teaching philosophy and experience, a statement of commitment and contributions to diversity, equity and inclusion in academia, and contact information for three references. Application review will begin February 15, 2022 and continue until the posi-

tion is filled or until April 15, 2022. Questions about this search should be directed to Linda Garcia (garciall@umich.edu), Executive Secretary.

EEB is committed to fostering diversity in its faculty, including with respect to race, ethnicity, gender, and disability status. Women and members of other groups underrepresented in science are particularly encouraged to apply. The university supports the needs of dual career couples. The University of Michigan is an equal opportunity/affirmative action employer. Offers for this appointment are contingent on successful completion of a background screening.

COVID-19 vaccinations are now required for all University of Michigan students, faculty and staff across all three campuses, including Michigan Medicine, no later than one week before their first day of employment. This includes those working or learning remotely. More information on this policy is available on the Campus Blueprint website.

Timothy James <tyjames@umich.edu>

UOregon ResAssist EvolutionaryGenomics

The Streisfeld lab (<http://streisfeldlab.weebly.com> < <http://www.uoregon.edu/~mstreis> >) in the Institute of Ecology and Evolution at the University of Oregon is looking to hire a research assistant to help with multiple projects on the ecological genomics of adaptation and speciation in plants (mostly *Mimulus*). The position involves a combination of laboratory and greenhouse work. Review of applications begins Feb 1, but the position will remain open until filled. Please contact me with any questions. Please see the full job ad, with instructions on how to apply and other details, here:

<https://careers.uoregon.edu/en-us/job/528775/-pro-tem-research-assistant> Matt Streisfeld
mstreis@uoregon.edu

< <http://www.uoregon.edu/~mstreis> >

Matt Streisfeld <mstreis@uoregon.edu>

UValencia ResAssist Metabarcoding

WHERE: Cavanilles Institute of Biodiversity and Evolutionary Biology (University of Valencia, Spain)

WHAT: A technician with experience in molecular biology and analysis of sequence data is needed to carry out metabarcoding analyses, already tested with success in our lab, to characterize the diet of Kuhl's, Soprano and the Common pipistrelles in areas with different control strategies (use of pesticides or not) against the European grapevine moth (*Lobesia botrana*). Thanks to the metabarcoding analyses it will be possible to determine whether or not the different control strategies have an effect on the composition of the bats' diet. As a Research Assistant, you will work mostly on DNA extractions and PCR amplification from insects and bat feces. Depending on your project involvement and interest, you may also be asked to contribute to data analyses and manuscripts, for which you would receive authorship credit. Previous experience in molecular biology, the use of statistical tools for data analysis, English proficiency and motivation of the applicant will be considered.

WHEN: The position is open until Jan. 30th, and it will be a 10 month contract with possibility of extension.

For more information: Ferran.Palero@uv.es

– Ferran

PALERO Ferran, Ph.D. M.Sc. Institut Cavanilles de Biodiversitat i Biologia Evolutiva (ICBIBE) Carrer del Catedr tic Jos  Beltr n Mart nez, 2 46980 Paterna, Valencia E-mail: Ferran.Palero@uv.es Tel: 0034963543787

Associate Researcher, Natural History Museum, Cromwell Road, London, SW7 5BD UK E-mail : Ferran.Palero@nhm.ac.uk ResearcherID: A-7830-2012

Ferran Palero <crustomics@gmail.com>

WellcomeSangerInst ResAssist TreeOfLife

Research Assistant - Tree of Life <https://jobs.sanger.ac.uk/vacancy/research-assistant-tree-of-life-469960.html> The Wellcome Sanger Institute are seeking a Research Assistant to join the Blaxter group in the Tree of Life programme to work in our nematode and meiofaunal genomics team. You will join a friendly and productive group working on the genomics of the smallest of animals - mostly nematodes, but also other meiofauna.

About the Team: The Blaxter group is using high volume genomics to understand the evolution and biology of a wide range of taxa. One key project is to sequence to high quality the genomes of hundreds of free living and parasitic nematodes (roundworms) and other meiofaunal species. We also work on a wide range of other animals, plants, fungi and protists.

About the Role: You will be responsible for maintenance and processing of nematode cultures for genomic analysis, including many free living taxa and new isolates from the wild. You will be responsible for shepherding strains from acquisition through to genome sequencing, working with others in the team to set priorities and develop procedures. You will participate in wild sampling of nematodes and other meiofauna.

About you: We are seeking a graduate biologist, good with their hands in the laboratory - and preferably with some experience in handling *Caenorhabditis* or other nematode cultures - and with an enthusiasm for science that can see beyond the detail of the day to day work in the lab to new discoveries. You will be careful, meticulous and have a strong work ethic.

Molly Carter <mc39@sanger.ac.uk>

AGA SpecialEventsAwards Deadline Jan31	50	MichiganTechU REU PlantEvolution	55
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AGA SpecialEventsAwards Deadline Jan31

The American Genetic Association grants awards each year to its members for support of special events that advance the mission of AGA, particularly to help students to attend the event.

Eligible events include specialized workshops and short courses in topical areas of organismal genetics and genomics, but any event relevant to AGA's purpose will be considered, especially those that could lead to original Journal of Heredity articles.

Awards are between \$1,000-\$15,000. Funding is competitive, and applications must follow the guidelines.

To apply, visit <https://www.theaga.org/> Anjanette Baker <theaga@theaga.org>

ASN SSE SSB IdeaAward CallForNominations

The American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists are still accepting nominations for the ASN/SSE/SSB Inclusiveness, Diversity, Equity, and Access (IDEA) Award.

The IDEA Award will be given to a person at any career stage who has strengthened the ecology and evolutionary biology community by promoting inclusiveness and diversity in our fields. The award can also be presented to a group. The recipient(s) will be invited to present a plenary lecture at the following year's Evolution meeting. Each recipient will also receive a plaque and a \$1000 honorarium (shared among recipients if more than one).

****Eligibility Note: No contemporary officer, editor, member of diversity committee, or meeting organizer of the three societies is eligible for the award. Membership in any of the three societies is not required to nominate someone or be nominated for this award.****

Nominations should be submitted by January 15, 2022.

Nomination packages should include:

1. Nomination Letter: A single letter of support (1-2 pages) including biographical information (name, title, organization) of the person or group being nominated, along with a short description of the activities supporting the nomination. The letter must also include a section on the nature of impact the person or group has had on inclusivity, diversity, and equity in the field. For self-nominations, this letter should be written by someone familiar with the activities of the nominee.
2. Biosketch: A brief biosketch or list of activities (maximum 3 pages) for the person/group nominated.
3. Optional supplementary material: any material you believe clarifies the activities of the nominee relevant to this award (maximum 3 pages).

Please contact committee chair Benjamin Blackman at [bkblackman \[at\] berkeley.edu](mailto:bkblackman@berkeley.edu) with any questions.

Learn more about the award here: <http://www.evolutionsociety.org/society-awards-and-prizes/inclusiveness-diversity-equity-and-access-idea-award.html> Apply here: <https://bit.ly/3Fkzppe>
DEADLINE: January 15, 2022

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

Biodiversity Informatics Survey

Dear EvolDir Members,

Help your community illuminate “biodiversity informatics” what does it mean, what core set of competencies does it represent, and who should be teaching it? Please share your knowledge and experience with this topic in a 20 min survey. We expect to synthesize the results in a paper with recommendations for training our existing and rising workforce in biodiversity research, conservation, and management. We appreciate and value your willingness to share your thoughts.

The survey closes on 21 February 2022. Survey Link: <https://tinyurl.com/h2w9wcn7> With gratitude,

Julie Allen on behalf of our BioInfo Interest Group

Julie Allen <jallen23@unr.edu>

Dryad Data Curator Position

Data Curator Position

Curation is essential for the integrity of the data submitted to Dryad. Dryad Data Curators will review metadata and data files to ensure compliance with our curation standards, track review processes through the data curation lifecycle and correspond with researchers as needed. They will work with other members of the Dryad curation team to ensure standards are consistently met, and datasets are processed in a timely and professional manner.

Responsibilities:

- Review and update metadata to comply with Dryad’s standards
- Review the data files to comply with Dryad’s curation standards
- Initiate and manage correspondence with researchers as needed to ensure compliance with data sharing standards
- Continuously update and manage the dataset lifecycle within the Dryad platform
- Triage curation questions or suggestions as needed
- Consistently review and update curation documentation as needed
- Participate in curation team meetings to stay up to date and contribute to curation processes and standards

Qualifications Dryad is looking for a Data Curator with the skills and perspectives that complement our existing team and shares our enthusiasm for building a researcher-led, values-driven, fully curated, open research data repository. Below are specific job qualifications:

- Strong attention to detail
- Experience working with data in either a research or curation capacity (quantitative and qualitative)
- General experience working with software packages, both open source and proprietary
- Comfortable working with a variety of data types from diverse domains
- Awareness of good data and metadata practices
- Customer-service orientation with excellent written and real-time communication skills
- Ability to work with minimal supervision and excellent time management skills
- Able to work virtually with a fully distributed team
- Strong willingness to learn new skills
- Experience working with researchers in a lab, library, publishing and/or institutional capacity

Our team values a learning mindset and strives to be always improving and evolving ourselves and our methodologies, being receptive to feedback, responsive, curious, and willing to learn.

Compensation and Benefits As this is a remote, part-time position. We offer competitive hourly compensation of \$23/hour. While we are an international organization, we are currently restricted to hiring this position in the United States.

Equal Employment Opportunity Dryad is dedicated to providing a welcoming and supportive environment for all people, regardless of background or identity. We are an equal opportunity employer and give consideration for employment to qualified applicants without regard to age, race, color, religion, creed, sex, sexual orientation, gender identity or expression, national origin, marital status, disability or protected veteran status, or any other status or characteristic protected by US federal, state, or local law. We encourage all qualified individuals to apply.

To Apply Please submit a resume or CV and optional cover letter to jobs@datadryad.org. Submissions received will be reviewed within 2-3 weeks from date received. The position remains open until filled.

<https://blog.datadryad.org/jobs/#data-curator>
 Mariah Kenney <mkenney@datadryad.org>

ESEB Conference Travel Awards

ESEB Conference Travel Award

These stipends are for students and young scientists to attend the ESEB congress (<https://www.eseb2021.cz/>) in Aug 2022 in Prague, CZ, the next EMPSEB meeting (<https://empseb.wordpress.com/>) from 22-27 May 2022 in Espoo, FI, or the Evolution meeting (<https://www.evolutionmeetings.org/>) of ASN/SSB/SSE in Cleveland, US, on 24-28 June 2022. The stipend will contribute to covering travel, living expenses, and early bird congress registration fees. Note that for participants of ESEB 2022, the registration fee will be directly waived by the congress organizers as part of the stipend. The (remaining) funds will be paid out as a reimbursement after the congress, based on specification of the expenses.

DEADLINES:

For awards to support your participation at EMPSEB 27: February 15, 2022

For awards to support your participation at Evolution 2022 or ESEB2022: April 15, 2022

Eligibility

- Applicants must be ESEB members before the deadline (for becoming an ESEB member, please visit <https://eseb.org/society/eseb-membership/>).
- Applications can be submitted by scientists at various stages of their professional career (e.g., Masters and PhD students, postdocs, and lecturers).
- Scientists working in a country with high GDP are not eligible (for the list of excluded countries see—below).
- People who received an ESEB travel stipend in the last five years are not eligible.
- Applicants must apply to present either an oral communication or a poster to be eligible for the stipend. This will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application—stage.

PLEASE NOTE THAT THESE STIPENDS ARE GIVEN IN CONJUNCTION WITH ANALOGOUS STIPENDS OFFERED BY THE SSE (separate call) TO SUPPORT PARTICIPATION AT EVOLUTION 2022 OR ESEB2022, SO THERE IS NO NEED TO APPLY TO—BOTH.

How to—apply

- Send your application by email to the ESEB Office (office@eseb.org).
- The application should be no more than 2 pages long and include:
 - Name of the applicant;
 - ESEB membership number;
 - Budget, including sources of additional support;
 - An explanation of how attendance to the meeting will support the attendant's professional—goals;
 - and a short—CV.

Please submit the application as a single PDF-file. A support letter from the applicant advisor/mentor/senior colleague is also required. Support letters should be sent to the same email address (office@eseb.org) by the applicant's mentor.

DEADLINES:

For awards to support your participation at EMPSEB 27: February 15, 2022

For awards to support your participation at Evolution 2022 or ESEB2022: April 15, 2022

Members professionally based in the following countries are not eligible for the travel stipend: Andorra, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Canada, China, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Greenland, Hong Kong, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea Rep., Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macao, Malta, Monaco, Netherlands, New Zealand, Norway, Oman, Poland, Portugal, Puerto Rico, San Marino, Saudi Arabia, Singapore, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, United Arab Emirates, United Kingdom, United States of America, Uruguay.

Ute Moniatte, Office Manager | Email: office@eseb.org | European Society for Evolutionary Biology | Website: eseb.org

ESEB Office <office@eseb.org>

ESEB Conference Travel Awards 2022

ESEB Conference Travel Award

These stipends are for students and young scientists to attend the ESEB congress (<https://www.eseb2021.cz/>) in Aug 2022 in Prague, CZ, the next EMPSEB meeting (<https://empseb.wordpress.com/>) from 22-27 May 2022 in Espoo, FI, or the Evolution meeting (<https://www.evolutionmeetings.org/>) of ASN/SSB/SSE in Cleveland, US, on 24-28 June 2022. The stipend will contribute to covering travel, living expenses, and early bird congress registration fees. Note that for participants of ESEB 2022, the registration fee will be directly waived by the congress organizers as part of the stipend. The (remaining) funds will be paid out as a reimbursement after the congress, based on specification of the expenses.

DEADLINES:

For awards to support your participation at EMPSEB 27: February 15, 2022

For awards to support your participation at Evolution 2022 or ESEB2022: April 15, 2022

Eligibility

- Applicants must be ESEB members before the deadline (for becoming an ESEB member, please visit <https://eseb.org/society/eseb-membership/>).
- Applications can be submitted by scientists at various stages of their professional career (e.g., Masters and PhD students, postdocs, and lecturers).
- Scientists working in a country with high GDP are not eligible (for the list of excluded countries see—below).
- People who received an ESEB travel stipend in the last five years are not eligible.
- Applicants must apply to present either an oral communication or a poster to be eligible for the stipend. This will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application—stage.

PLEASE NOTE THAT THESE STIPENDS ARE GIVEN IN CONJUNCTION WITH ANALOGOUS STIPENDS OFFERED BY THE SSE (separate call) TO SUPPORT PARTICIPATION AT EVOLUTION 2022 OR ESEB2022, SO THERE IS NO NEED TO APPLY TO—BOTH.

How to—apply

- Send your application by email to the ESEB Office (office@eseb.org).
- The application should be no more than 2 pages long and include:
 - Name of the applicant;
 - ESEB membership number;
 - Budget, including sources of additional support;
 - An explanation of how attendance to the meeting will support the attendant's professional—goals;
 - and a short—CV.

Please submit the application as a single PDF-file. A support letter from the applicant advisor/mentor/senior colleague is also required. Support letters should be sent to the same email address (office@eseb.org) by the applicant's mentor.

DEADLINES:

For awards to support your participation at EMPSEB 27: February 15, 2022

For awards to support your participation at Evolution 2022 or ESEB2022: April 15, 2022

Members professionally based in the following countries are not eligible for the travel stipend: Andorra, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Canada, China, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Greenland, Hong Kong, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea Rep., Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macao, Malta, Monaco, Netherlands, New Zealand, Norway, Oman, Poland, Portugal, Puerto Rico, San Marino, Saudi Arabia, Singapore, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, United Arab Emirates, United Kingdom, United States of America, Uruguay.

Ute Moniatte, Office Manager | Email: office@eseb.org | European Society for Evolutionary Biology | Website: eseb.org

ESEB Office <office@eseb.org>

ESEB Congress Attendance Aid Grants 2022 Open Call

CONGRESS ATTENDANCE AID GRANTS

The grant aims to ensure equal opportunities at the EMPSEB 27 meeting in Espoo, FI or the ESEB congress in Prague, CZ, e.g. by facilitating the attendance of women with caring responsibilities, who would not otherwise be able to attend. The grant provides stipends of financial aid for scientists to help with the additional costs borne privately due to responsibilities for dependents when attending one of the above mentioned meetings. The stipend will contribute to covering expenses for care of dependents, but also for travel.

DEADLINE FOR ATTENDING EMPSEB 27: 1st February, 2022

DEADLINE FOR ATTENDING ESEB 2022: 15th April, 2022

ELIGIBILITY

- Applicants must be ESEB members (for becoming a member of ESEB please visit our membership page at <https://eseb.org/society/eseb-membership/>). - Applications can be submitted by scientists at any stages of their professional career (e.g., undergraduate, Masters and PhD students, postdocs, and lecturers). - Applicants must explain explicitly how their attendance will increase equal opportunities at the society. - Applicants must present either an oral communication or a poster at the respective meeting to be eligible for the award. This will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application—stage. - Applicants must provide a budget of how they intend to use the grant. Eligible costs include, but are not limited to: childcare on site, childcare at home, extra care at home for dependents, extra travel costs for babysitter (grandparents)—etc. - The stipend will be paid out as a flat rate of 250 EUR for applicants based within Europe, and in certain cases up to 500 EUR for applicants based outside of Europe, after the congress when confirmation of attendance is provided.

HOW TO—APPLY

The application should be no more than 2 pages long and include:

- Name of the applicant - An explanation of how attendance at the meeting improves equal opportunities at—ESEB - An explanation of how attendance at the meeting will further the attendant’s professional—goals - Itemised budget - CV

Please submit the application as a single PDF file by email to Ute Moniatte at the ESEB office (office@eseb.org; subject: EO congress grant) and take care to limit the size of attachments (total < 10 MB) in any one—email.

European Society for Evolutionary Biology Dr Ute Moniatte ESEB Office Manager office@eseb.org <https://eseb.org> ESEB Office <office@eseb.org>

EvolBiol AI 12weekFellowships

What can we learn from biological and social systems about designing beneficial AI systems?

Principles of Intelligent Behavior in Biological and Social Systems (PIBBSS) aims to facilitate knowledge transfer with the goal of building human-aligned AI systems.

In Summer 2022, the PIBBSS summer research fellowship will bring together researchers from fields studying complex and intelligent behavior in natural and social systems, such as evolutionary biology, neuroscience, linguistics, sociology, and more.

Over the course of 10-12 weeks, fellows will work on a project at the intersection of their own field and AI safety, under the mentorship of experienced AI alignment researchers.

Application deadline: Sunday, Jan 23rd, 2022

Learn more and apply at <https://www.pibbss.ai/>. The program is organized in partnership with the Swiss Existential Risk Initiative, the Central for Theoretical Study at Charles University and the Stanford Existential Risks Initiative.

Anna Gajdova PIBBSS Project Manager

Anna Gajdova <anna@pibbss.ai>

Guam StudentResearchExperience

Guam, USA - October 22, 2021 - Are you a prospective graduate student interested in ensuring the sustainability of coral reefs and the marine environment? If you’re self-motivated, well-organized, and have a Bachelor of Science in Biology, Environmental Science, or related field, Guam EPSCOR has a valuable graduate student research experience for you – and it’s paid!

The Graduate Research Assistantship is a three-year long program designed to train graduates in scientific research. Selected students will benefit from a tuition

waiver of up to 12 credits per semester for the pursuit of a master's degree, research training, faculty mentorship, possible travel opportunities, and an \$18,000 annual stipend (\$1,500 per month).

Selected applicants will choose to specialize from the following disciplines: Ichthyology (Biorepository), Ecology, Genomics, Microbiology, Ecophysiology, and/or Oceanography. Depending on chosen specialization, students may learn about DNA extraction and sequencing and/or how to read and analyze data to characterize marine environments.

The program may involve hands-on fieldwork to investigate coral reefs or to deploy and retrieve oceanographic instruments while working at the UOG Marine Laboratory. Graduate students will also receive support for their individual thesis defenses.

The program seeks to increase the number and diversity of students who choose careers in STEM (Science, Technology, Engineering, and Mathematics). All qualified students are encouraged to apply, in particular women, minorities, and students with disabilities.

The deadline to apply is 5 p.m. CHST on February 18, 2022, and accepted students will be notified by March 18, 2022. Late applications may be considered until the UOG Masters Application Deadline, pending availability of positions.

For more information and to apply, visit <https://guamepscor.uog.edu/gra/> About Guam EPSCoR The Guam EPSCoR program at the University of Guam is funded by a five-year, \$20 million grant from the National Science Foundation's Established Program for the Stimulation of Competitive Research (EPSCoR). The program aims to broaden the participation of underrepresented students in STEM fields through developing a research program that helps ensure the sustainability of coral reef ecosystems in the face of environmental change. Guam EPSCoR aims to situate Guam as a premier research and STEM education hub bolstering sustainability, economic development, and informed decision-making by engaging communities in 21st-century science

Si Yu'os Ma'Äÿse,

Kyle Mandapat Assistant Director for Communications
NSF GUAM EPSCoR Sea Grant Center for Island Sustainability
Guam Green Growth

UNIVERSITY OF GUAM

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§mandapatk@triton.uog.edu

Kyle Mandapat <mandapatk@triton.uog.edu> Kyle Mandapat <mandapatk@triton.uog.edu>

MichiganTechU REU PlantEvolution

REU Internship in Plant Ecology and Evolutionary Biology at Michigan Technological University

Overview: We seek 1-2 motivated and enthusiastic undergraduate students for a summer Research Experiences for Undergraduates (REU) internship in Dr. Erika Hersch-Green's Plant Ecology and Evolutionary Biology Lab at Michigan Technological University. This is a 10-week, full-time, paid internship. Dates are flexible but will run from approximately the beginning of June through mid-August 2022. The selected student will receive a \$5000 stipend (~\$500/week for the 10-week duration), up to \$1000 to defray travel costs to Houghton MI, and will be provided with research funds to support their project.

The selected student(s) will be mentored by Dr. Hersch-Green to contribute to an ongoing NSF-funded research project that focusses on the interacting roles that nutrients, disturbance, plant genome size, and plant morphological/chemical/physiological traits have on community dynamics and species interactions (herbivores, pollinators, etc.). Data from this project is collected at experimental sites that are part of the NutNet and DRAGnet (for design and background see <https://nutnet.org/>) research consortiums in which plots are exposed to different nutrient and disturbance treatments.

Selected student(s) will develop and conduct an independent research project that contributes to the overall goals of the larger research project. Students will have opportunities to conduct laboratory, field, and/or greenhouse work and field work will be done locally at our experimental field site and/or by accompanying graduate students to other sites in the NutNet/DRAGNet research consortium.

Eligibility: Applicants must currently be a (1) U.S. citizen, U.S. national, or permanent resident and (2) an undergraduate freshman, sophomore, junior, or senior graduating no earlier than September 2022 or a high school senior that will start their undergraduate education the following fall semester after the REU program. We are especially encouraging applications from students from traditionally under-represented groups in biology/STEM fields (i.e., African Americans, Hispanic Americans, Native Americans, Alaska Natives, Native Hawaiians, other Pacific Islanders, students with disabil-

ities, first generation college students, veterans, women, LGBTQ students) as well as students from institutions with limited research opportunities (e.g., community colleges) and/or students in financial need. Applicants should be flexible to adapt to the ever-changing constraints and opportunities associated with field research.

To Apply: Applications should be submitted to Dr. Hersch-Green by email (eherschg@mtu.edu) no later than March 1st, and should include the following documents: (1) letter of interest that describes your educational background, career goals, and how this internship will contribute towards those goals, (2) current curriculum vitae/resume, and (3) unofficial transcripts. Additionally, please arrange to have two letters of recommendation emailed directly to Dr. Hersch-Green by the application deadline.

—

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

Erika Hersch-Green <eherschg@mtu.edu>

Online Expt animal Signals

Dear EvolDir Community,

A research team from the CNRS (France), UMBC (USA), and the University of Bristol (UK), is conducting a study of visual pattern preferences in humans, with the broader goal of understanding the evolution of animal signal design. We would very much appreciate your participation in our online study! We need a large sample size, and we hope that you also ask your friends and family to participate. The task is visual it will take less than 15 minutes, and your anonymity is secured. We thank you in advance for advancing evolutionary science! Results will be published and shared with the community.

Please follow the link to participate: <http://isemsurvey.mbb.univ-montp2.fr/pattern/> (Participation must be completed on a computer screen it is not designed for a smartphone or tablet.)

Thank you again! (And thanks to those who have already played!)

Tamra Mendelson Yseult Hejja-Brichard Julien Renoult

Michel Raymond Innes Cuthill

Tamra Mendelson <tamram@umbc.edu>

PLE UPittsburg Evolution Grants Fellowship

Pymatuning Lab of Ecology Research Grants The University of Pittsburgh's Pymatuning Laboratory of Ecology (PLE) invites applications for Grants in Aid of Research. PLE is a vibrant research and education facility located on Lake Pymatuning in Northwest Pennsylvania. PLE's research facilities are spread across 350 acres and include access to a variety of aquatic and terrestrial ecosystems (<https://www.ple.pitt.edu/ple-research>). Its 10,000+ square feet of laboratory facilities include a field laboratory adjacent to an open field that can be used for large-scale replicated experiments, a modern molecular laboratory, and facilities for animal, plant, and aquatic studies. Research of an evolutionary nature is quite welcome.

Research Grants are intended to support researchers in the early stages of their ecological and evolutionary research programs at PLE. Grant proposals are submitted each year in February and several awards are made, generally not exceeding \$3,500. Most awards go to graduate students, but consideration will be given to recent Ph.D.'s and more senior researchers interested in initiating new work at PLE. The due date for grant proposals is February 25, 2022. Please visit our website for further details about the application process: <https://www.ple.pitt.edu/research/fellowships-and-grants/ple-research-grants> For more information about the grants program or research opportunities at PLE, please contact the Director, Dr. Cori Richards-Zawacki (cori.zawacki@pitt.edu).

—

Corinne L. Richards Zawacki, Ph.D. (pronouns: she/her) email: cori.zawacki@pitt.edu

Professor, Department of Biological Sciences and
Director, Pymatuning Laboratory of Ecology
University of Pittsburgh

“At night I went out into the dark and saw a glimmering star and heard a frog and nature seemed to say, well do not these suffice?” - Ralph Waldo Emerson

—

Pymatuning Lab of Ecology Early Career Fellowship

The University of Pittsburgh's Pymatuning Laboratory of Ecology (PLE) is pleased to offer the Frank J. Schwartz Early Career Research Fellowship of up to \$10,000 plus up to three months of station fees and residency costs for the primary investigator (PI). PLE is a vibrant research and education facility located on Lake Pymatuning in Northwest Pennsylvania. PLE's research facilities are spread across 350 acres and include access to a variety of aquatic and terrestrial ecosystems. Its 10,000+ square feet of laboratory facilities include a field laboratory adjacent to an open field that can be used for large-scale replicated experiments, a modern molecular laboratory, and facilities for animal, plant and aquatic studies.

This opportunity is open to researchers holding PhD degrees in any science discipline that can benefit from PLE's resources (<https://www.ple.pitt.edu/ple-research>). The purpose of the fellowship is to permit researchers to explore new projects or collect preliminary data. Fellowship funds can be used at the PI's discretion to facilitate the research but not for PI compensation. Preference will be given to individuals and projects with the potential to develop into long-term research activities at PLE. We especially encourage applications from individuals in the postdoctoral or early faculty phases of their careers, but researchers holding PhD degrees at all stages of their careers are also encouraged to apply.

Information on the application procedure and format can be found at <https://www.ple.pitt.edu/research/-fellowships-and-grants/schwartz-early-career-research-fellowship>. The deadline for submission is February 25, 2022.

-

Corinne L. Richards Zawacki, Ph.D. (pronouns: she/her)
email: cori.zawacki@pitt.edu

Professor, Department of Biological Sciences and

Director, Pymatuning Laboratory of Ecology

University of Pittsburgh

"At night I went out into the dark and saw a glimmering star and heard a frog and nature seemed to say, well do not these suffice?" - Ralph Waldo Emerson

Cori Zawacki <cori.zawacki@pitt.edu>

Request Feedback Hemimetabolous- Model Species Choice

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/TRFVVLX>

Hemimetabolous Insect Species Tool Development <<https://www.surveymonkey.com/r/TRFVVLX>> 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

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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>

Seminar ESEB STN Speciation Jan11 5pmCET

Reminder: if you are interested in speciation, please join us for the first session our monthly seminar series on speciation, organised by the ESEB funded Special Topic Network “_Integration_of_speciation_research_” (IOS) Next Tuesday, 11th of January 2022, 5pm CET, online Invited speakers: Leonie Moyle (Professor, Department of Biology, Indiana University) and Daniel Matute (Assistant Professor, Department of Biology, University of North Carolina)

More information and webinar links below. Best regards,

Dear colleagues,

We are pleased to announce a new monthly online seminar series, launching on the 11th of January 2022 . This series is organised by a Special Topic Network called “Integration of speciation research” (IOS), funded by the European Society for Evolutionary Biology (ESEB). The network aims to establish a framework for integrative speciation research, by developing tools for comparative analyses (e.g. a publicly available speciation database) and organising activities (seminars, workshops) to facilitate discussion and knowledge exchange between all corners of speciation research. More information can be found on the IOS network website .

The seminar series will centre around the broad aims of the network, which are: i) To understand the relative importance of different barriers to gene flow and outline best practices to measure them. ii) To survey the role of interactions and coupling between barriers in increasing reproductive isolation. iii) To seek common genomic patterns underlying barriers as reproductive isolation increases. iv) To bridge the knowledge gap between what is known of speciation mechanisms at a microevolutionary scale and the knowledge of speciation rates & their determinants at a macroevolutionary scale.

The first instalment of the IOS seminar series aims at bridging the gap between macroevolutionary patterns

and microevolutionary mechanisms, with a focus on bigger questions in speciation research. We will welcome Leonie Moyle (Professor, Department of Biology, Indiana University) and Daniel Matute (Assistant Professor, Department of Biology, University of North Carolina) as speakers. The session will take place on 11th of January 2022 at 5 pm CET, lasting 1.5 hours. The first hour is dedicated to talks and questions, and the final 30 minutes is dedicated to a discussion session. To attend the sessions live, please follow the links below.

Webinar link for the talks: [<https://istaustria.zoom.us/j/98592407342?pwd=-NUJjeUthamREaDhNRWdhQzBEYkF5dz09>] Webinar ID: 985 9240 7342 Passcode: 577749

Discussion session link: [<https://istaustria.zoom.us/j/91522862933?pwd=-VE1uZkNSU0xqMVVfbXVCaFBNzlQZz09>] Meeting ID: 915 2286 2933 Passcode: 088268

Talks (but not discussion sessions) will be recorded and made available on the IOS .

The IOS network does not only aim at scientific integration, but also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET (January) and 8 am CET (February) etc.. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The seminar series programme will be announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically receive the programme and other news from the network can sign up to the IOS network mailing list [<https://docs.google.com/forms/d/1Q67v0PXQg6pFWCh8n-fLJyyWiHrMCRvK7jgwurJQIWM/edit>] .

We hope to see many of you on the 11th of January, and we wish you a very pleasant end to the year in the meantime. If you have questions, please contact jonna.kulmuni@helsinki.fi.

The STN IOS organising committee,

Jonna Kulmuni Chris Cooney Sean Stankowski Carole Smadja Nick Barton Sonal Singhal Roger Butlin Joana Meier Richard Merrill Konrad Lohse Liz Scordato

– Dr. Carole Smadja Directrice de recherche CNRS - CNRS Senior researcher Directrice adjointe de l’ISEM - ISEM Deputy director carole.smadja@umontpellier.fr

Tél : +33 (0)4 67 14 92 70 — Institut des Sciences de l'Évolution de Montpellier - Institute of Evolutionary Science of Montpellier (ISEM)

ISEM UMR 5554 cc065 Campus Triolet - Université de Montpellier - 34095 Montpellier Cedex 05

“carole.smadja@umontpellier.fr”

<carole.smadja@umontpellier.fr>

Sequencing Costs

Dear all,

Recently, the iconic NHGRI plot of sequencing cost since 2000 (<https://www.genome.gov/about-genomics/fact-sheets/DNA-Sequencing-Costs-Data>) got me thinking about the cost of sequence data acquisition since, say, 1960.

As I understand things, the super-Moore's-Law decline in sequencing costs starting in 2007 corresponds to the end of Sanger sequencing for bulk work. But what about earlier shifts in DNA technology? For example, what happened when ABI fluorescent-labeled ddNTPs replaced radiolabeled? Ditto Sanger sequencing vis $i_c \frac{1}{2}$ vis RFLPs? RFLPs vs protein sequencing? Did the (exponential) slope change at those moments as well?

Does anyone have any data on that? Or know where I might look?

Thank you! Dan Weinreich

“Weinreich, Daniel” <daniel_weinreich@brown.edu>

“Weinreich, Daniel” <daniel_weinreich@brown.edu>

UnitedStates 20 REU PlantInvasionGenomics

The Consortium for Plant Invasion Genomics (CPING: <https://www.invasiongenomics.com/>) is seeking appli-

cants for over twenty in-person undergraduate research positions for Summer 2022.

Twenty-two research mentors across ten U.S. states have eligible projects working with plants, invasive species, and/or genomics. Each student will be paired with one mentor and will gain experience in field collection, use of herbarium specimens, genomics, and bioinformatics. Specific projects will vary, but students will form an interactive cohort that will receive training in invasion biology, biological computing, career development, and scientific communication.

The 2022 CREU session will run from June 1st - August 3rd, and will conclude with a professional conference at which students will present their work. Undergraduates in their second year and beyond (including graduating seniors) with interests in invasive species, botany, and/or genomics are encouraged to contact individual CPING mentors prior to application. List of mentors and application can be found here (<https://www.invasiongenomics.com/creu.html>). Students are encouraged to contact potential mentors prior to applying.

Students who come from underrepresented groups in STEM, have limited research opportunities at their home institutions, and/or live or study in NSF-EPSCoR states (https://www.nsf.gov/od/oia/programs/epscor/nsf_oiaa_epscor_EPSCoRstatewebsites.jsp) are encouraged to apply! Due to funding restrictions, students must be U.S. citizens or permanent residents.

CREU participants will receive a stipend of \$4,000, another \$2000 for travel and living expenses, \$1000 in research funds, and full travel funds to the CPING annual conference in August 2022. Applications are due February 11th, 2022.

Questions can be sent to invasiongenomics@gmail.com or blsutherland@gmail.com

Brittany Sutherland <blsutherland@gmail.com>

PostDocs

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Barcelona PredictingEvolution 61	UCalifornia Berkeley ComputationalGenomics 83
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Arizona ComputationalPopulationGenomics

The Gutenkunst group at the University of Arizona has an open postdoc position focused on computational population genomics. The postdoc will support to our recent NIH grant to explore new models of natural selection within and between populations. In particular, we

are seeking candidates interested in applying our joint DFE inference method to existing evolutionarily and ecologically interesting data sets. (See our recent MBE publication: <https://doi.org/10.1093/molbev/msab162>). Candidates should have some computational population genetics or molecular ecology experience.

The University of Arizona has great strength in population and evolutionary genetics, offering potential interactions with Drs. Joanna Masel, David Enard, Mike Barker, and others. Computational resources are similarly excellent. The campus is highly interdisciplinary and very collegial.

At 2,500 feet above sea level, culturally diverse Tucson, Arizona is nestled among five mountain ranges in the beautiful Sonoran Desert and is surrounded by Saguaro National Park. Housing is affordable, quality of life is high, and outdoor recreation opportunities include the southernmost ski area in the United States and over 100 miles of bike trails. The area receives over 350 days of sunshine per year and enjoys average high/low temperatures of 82/54 degrees F.

To learn more about the Gutenkunst group, see <http://gutengroup.mcb.arizona.edu/>. If interested, contact me at rgutenk@arizona.edu with your CV and any questions. Application review is ongoing and will continue until the position is filled.

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

Barcelona Predicting Evolution

The Centre de Recerca Matemàtica (CRM) in Barcelona offers 2 senior and 2 junior postdoctoral positions funded by the Maria de Maeztu Unit of Excellence Award (2020). Deadline: January 31, 2022, check the conditions at <https://www.crm.cat/crm-calls-for-proposals/> - 2 senior and 2 junior in the area of Applied Mathematics, which include applications to Mathematical Biology, Neuroscience and Climate Science. Please contact me at isaac.salazar@uab.cat if you are interested in applying for working in models predicting evolution and gene networks

Sincerely,

Isaac Salazar Ciudad

Isaac Salazar Ciudad <Isaac.Salazar@uab.cat>

BenGurionU DesertRodentEvolution

Dear all, If you are American or Canadian citizens who are interested to be involved in experimental evolution, work with a natural rodent-pathogen system, and live in the middle of a beautiful desert, I invite you to apply for the prestigious Zukerman Fellowship (<https://zuckerman-scholars.org/ourprograms/-postdoc-program/>) under my supervision.

Please contact me (hadashaw@bgu.ac.il), with a research description, CV, and contact details of three referees.

Best wishes, Hadas

Hadas Hawlena, PhD Mitrani Department of Desert Ecology Blaustein Institutes for Desert Research

Hawlena Hadas <hadashaw@bgu.ac.il>

BrownU EvolutionaryGeneticsOfDrosophila

A postdoc position is available to work on the genetic and evolutionary aspects of nuclear-mitochondrial interactions in the laboratory of David Rand and Brown University. The goals of this NIH funded project are to study the epistatic interactions among nuclear and mitochondrial genotypes that modulate fitness, physiological and biochemical traits in *Drosophila*. Mitochondrial genotypes from different strains and species of the melanogaster subgroup are placed on various nuclear chromosomal genetic backgrounds to dissect the genetic basis of sex-specific life history and performance traits. The project involves quantitative genetic analyses of *Drosophila* strains, genetic mapping experiments, computational analysis of genomic and transcriptomic data and inferences from population genetics, development, and evolution. Some recent publications:

Mitochondria as environments for the nuclear genome in *Drosophila*: mitonuclear $G_{iL} \frac{1}{2} G_{iL} \frac{1}{2} E$ <https://doi.org/10.1093/jhered/esab066> Natural variation in the regulation of neurodevelopmental genes modifies flight performance in *Drosophila* <https://doi.org/10.1371/>

[journal.pgen.1008887](https://doi.org/10.1098/rstb.2019.0188) Mitonuclear conflict and cooperation govern the integration of genotypes, phenotypes and environments <https://doi.org/10.1098/rstb.2019.0188> Ecological Load and Balancing Selection in Circumboreal Barnacles <https://doi.org/10.1093/molbev/msaa227> More information can be found at <https://www.davidrandlab.org>. Applicants must have completed their PhD before starting the position, and have a strong record of accomplishment from their dissertation work. Applicants should have some combination of experience with *Drosophila* genetics, quantitative genetics, biochemical assays, computational analysis, and an interest in evolution or genetics. The appointment is open for up to 3 years, and successful candidates will receive guidance in the preparation of an NIH NRSA Fellowship to pursue related projects.

The position is available now and applications will be reviewed until the position is filled. To apply please submit 1) a CV, 2) a short statement of research interests and experience, including a paragraph on how your previous experience makes you well qualified for this position, and 3) contact information for three references to the following Interfolio site [<https://apply.interfolio.com/87536>]. Brown University is an EEO/AA employer and encourages applications from minorities and women. Review of applications will begin immediately and will continue until the position is filled or the search is closed.

email: David.Rand@brown.edu Department of Ecology, Evolutionary and Organismal Biology Box G-W, 80 Waterman Street Brown University Providence, RI 02912 (401) 863-2890 (Office), (401) 863-1063 (Lab), (401) 863-2166 (fax) <https://www.davidrandlab.org/> <https://www.brown.edu/academics/ecology-and-evolutionary-biology/> The EEOB Department at Brown is an interactive group with strengths that span genomics, evolutionary biology, functional morphology, ecology, and environmental science. There are close ties to the Department of Molecular and Cellular Biology, the Center for Computational Molecular Biology, the Data Science Initiative, and the Institute at Brown for Environment and Society. <https://www.brown.edu/academics/biology/molecular-cell-biochemistry/graduate/home> <https://ccmb.brown.edu/home> <https://www.brown.edu/initiatives/data-science/home> <https://ibes.brown.edu/> Information on postdoctoral studies at Brown can be found here: <https://www.brown.edu/academics/biomed/graduate-postdoctoral-studies/> Providence is widely recognized as the Venice of New England with great restaurants, easy access to Narragansett Bay and ocean beaches, and a rich history. <http://www.providenceri.com/> <https://www.providenceri.gov/> David M. Rand Stephen T. Olney Professor of Natural History Chair,

Department of Ecology and Evolutionary Biology Box G-W, 80 Waterman Street Brown University, Providence, RI 02912 Phone: (401) 863-2890 (Office - Walter Hall 202)

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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>

CDFW-UCalifornia Davis DeerLandscapeGenomics

Reminder: Review of applications for this postdoctoral position will begin January 31.

Postdoctoral Position: Mule Deer Landscape and Disease Genomics

Wildlife Genetics Research Unit, California Department of Fish and Wildlife Mammalian Ecology and Conservation Unit, University of California, Davis

We seek a highly motivated candidate with a background in population genomics and evolution to fill a postdoctoral researcher position. The objective of this project is to characterize how genomic variation among CA populations of mule deer is shaped by geographic and environmental variation, and how these factors underlie phenotypic variation and local adaptation. An additional objective is to assess the frequency and geographic distribution of deleterious alleles clinically relevant to Chronic Wasting Disease (e.g., MHC, PPN, etc.), the extent of genetic load, and the threat this pathogen poses to mule deer in California.

Responsibilities: The successful candidate will be responsible for study design, whole genome resequencing library construction, bioinformatic processing of Illumina short-read data, and analysis of SNP variants to determine genomic diversity and adaptive differentiation between populations from contrasting natural environments. The postdoc will have access to a newly generated *Odocoileus hemionus* chromosome-level reference genome assembly along with whole genome resequencing data for 100's of individuals, as generated under the California Conservation Genomic Project (<https://www.ccgproject.org/>). The postdoctoral scholar will also be responsible for manuscript preparation as lead author.

Required Qualifications: ——— Completed or be within 1-3 months of completing a PhD in evolutionary genomics, molecular ecology, bioinformatics, or a related field ——— In-depth knowledge of population genetics theory and analysis. Strong statistical skills ——— Comprehensive experience working with Linux and R. Proficiency in one or more programming languages (Python or Perl) a plus ——— Experience working with high-throughput sequencing data, ideally with whole genome resequencing data ——— Demonstrated record of research productivity via first-authored publications in peer-reviewed journals ——— Highly motivated, able to work independently and with good interpersonal skills ——— Strong interest in mammal biology and/or wildlife genetics and management

Description of the scientific environment

The postdoc will work at the Wildlife Genetics Research Unit (<https://wildlife.ca.gov/Conservation/-Laboratories/Wildlife-Health/Genetics>)

in Sacramento, CA under the direction of Dr. Michael Buchalski and will additionally collaborate with Dr. Ben Sacks and lab-members at the University of California Davis, Mammalian Ecology and Conservation Unit (<https://mecu.ucdavis.edu/>). The CDFW lab was established to advance genetic/genomic research that enhances conservation and management of CA wildlife. Personnel in the lab use genomic methods to infer evolutionary processes related to diversity, population divergence, and local adaptation for numerous species. Ample computational resources are available to support our work through the UC Davis HPC system. Our projects capitalize on a unique set of wildlife samples from an in-house collection as well as our comprehensive statewide network of collaborators. We have developed a program aimed at providing the scientific knowledge needed to improve wildlife management, while also addressing questions of interest in the field of molecular ecology. In addition to being an employee of CDFW, the hiree may be jointly appointed as postdoctoral scholar or research associate at the University of California, Davis.

Salary: This is a full-time position with salary commensurate with the Research Scientist 1 job series within the California state system: \$72,600 per year plus full benefits. The initial appointment will be for 1 year but may be extended 1 additional year based on satisfactory performance.

Review of applications will begin in January 2022. Applications will be considered on a rolling basis and continue until the position is filled. The position is available effective immediately. The start date is flexible but anticipated to be in Spring 2022 or when the

suitable candidate is identified. Questions regarding the position can be directed to Dr. Michael Buchalski (michael.buchalski@wildlife.ca.gov).

How to apply: The official job posting can be found at <https://www.calcareers.ca.gov/CalHrPublic/Jobs/-JobPosting.aspx?JobControlId=278263>.

Hiring for CA state service has very strict requirements with no

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CzechAcademy EvolutionaryBiology

Postdoc in Evolutionary Biology: phylogenetic regionalization of the Eastern Afrotropical Biodiversity Hotspot
Institute of Vertebrate Biology, Czech Academy of Sciences

The position is available from February 2022 to December 2022

Topic: Biogeographic phylogenetic regionalization of the Eastern Afrotropical Biodiversity Hotspot, using small mammals as a model animal group.

The goal of the project:

The revolution in phylogenetic systematics has generated an unprecedentedly high number of cladograms at a very fine spatial scale. They can be used to discover natural “monophyletic” biogeographic areas, which have great explanatory power as they represent natural regions formed by biological and geological evolutionary processes (sensu Ebach & Parenti 2015). Recently developed approaches for the so-called phylogenetic regionalization (e.g. Daru et al. 2017) can significantly help to reveal the spatial and evolutionary structure of biodiversity and identify centres of evolutionary radiation, museums of diversity and extinction hotspots.

The post-doc researcher will use already collected phylogenetic/phylogenomic data for phylogenetic regionalization of the Eastern Afrotropical Biodiversity Hotspot. She/he will follow a widely suggested pipeline, using genomic trees as the main input data (see Daru et al. 2017). (i) In the first step they will quantify the phylogenetic beta diversity (PBD) - this can be done

by a variety of approaches (Leprieur et al. 2012), e.g. PhyloSor, UniFrac or Simpson's phylogenetic index. Especially the latter is commonly used in biogeographic regionalization because it is insensitive to differences in species richness. (ii) The second step includes the selection of a clustering algorithm that best describes the site x site PBD matrix. The performance of particular algorithms will be evaluated e.g. by using the cophenetic correlation coefficient or Gower's distance. (iii) The last step is the determination of the optimal number of clusters (bioregions) - we will use more objective approaches based on transition zones, e.g. the "elbow" method implemented in R package VEGAN.

Application deadline: 28. January 2022

Questions are welcome to bryja@ivb.cz

Further information and info on how to apply is available at:

<https://www.ivb.cz/en/news/post-doc-position-at-the-institute-of-vertebrate-biology-of-the-czech-academy-of-sciences/> Alena Fornuskova

Alena Fornuskova <afornuskova@gmail.com>

DonanaBiolStation Spain EvolBiology

*Postdoctoral **Researcher positions at */*Doñana Biological Station:*/

The /Doñana Biological Station/ (Estación Biológica de Doñana, EBD; Seville, Spain) is seeking to incorporate postdoctoral researchers through the /Juan de la Cierva-//formación//program, financed by the Spanish government.

We are looking for researchers that have an excellent track record in evolutionary biology, conservation biology, ecology or global change. Candidates should have a PhD title obtained between January 1st 2020 and December 31st 2021 and should locate a research group that would host them. For the application the candidates will need to submit their CV and that of the host researcher and group. For information about the research carried out at the Estación Biológica de Doñana, please check <http://www.ebd.csic.es/inicio>. The Estación Biológica de Doñana is an institute of the Spanish National Research Council (CSIC). EBD has close to 200 employees, including 44 permanent researchers and also postdoctoral fellows, PhD students,

field and lab technicians, and administrative personnel. EBD has several unique aspects:

-EBD manages two field reserves, one within Doñana National Park and the other in the Sierra de Cazorla, both devoted to ecological and evolutionary research.

-The field reserve in Doñana National Park is a Singular Scientific-Technical Infrastructure (ICTS-RBD) that offers services and facilities to researchers around the world.

-The institute, located in Seville, is equipped with six laboratories maintained by technical staff, that offer services to all researchers: Molecular Ecology, GIS and Remote Sensing, Chemical Ecology, Aquatic Ecology, Ecophysiology, Stable Isotopes.

-The institute has also an Animal Experimentation Unit and a green house. This includes 11 walk-in climatic chambers and animal care facilities. Our Animal Welfare personnel train and conduct certification courses for our personnel.

-The institute houses the second largest scientific collection in the country which focuses on vertebrates and includes over 100,000 specimens.

-We actively participate in MSc and PhD programs at the University of Seville and Pablo de Olavide University. We also host PhD students from many other national and international universities as well.

Despite the rich resources available to scientists at EBD, the main advantage of EBD is the quality of the researchers. Several of them are among the most cited researchers in their fields and are internationally recognized. We welcome researchers from all over the world.

Timeline for applications: January 20th to February 3rd 2022. Website for information and application:

<https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-juan-cierva-formacion-2021>

We encourage potential applicants to check requirements as soon as possible to avoid last-minute problems.

For further information, contact us at proyectos@ebd.csic.es

Carles Vila¹ Vicedirector de Investigación / Deputy Director of Science Estación Biológica de Doñana-CSIC / Doñana Biological Station-CSIC Avd. Americo Vespucio 26 41092 Seville (Spain) <http://www.ebd.csic.es/> Carles Vila <carles.vila@ebd.csic.es>

Eastern Washington U Symbiosis Evolution

A two-year postdoctoral research position is available in Dr. Jessica Allen's lab at Eastern Washington University as part of a \$1.4 million NSF-funded collaborative project with The New York Botanical Garden titled "Integrating Digitization, Exploration, Genomics, and Student Training to Illuminate Forces Shaping Appalachian Lichen Distributions." The project will examine the how intrinsic biological characteristics and extrinsic environmental conditions shape species distributions through development of lichen symbioses in the Appalachian Mountains as a model system. The award summary can be viewed on the National Science Foundation Website: (https://www.nsf.gov/awardsearch/showAward?AWD_ID=2115191&HistoricalAwards=false)

The postdoctoral researcher will be primarily responsible for conducting multiple large-scale analyses and publishing the results. Past experience analyzing population genomics and/or ecological data sets is essential. Additional aspects of the position can be negotiated to match the postdoctoral researcher's career goals and interests (e.g., include field work, undergraduate and graduate student mentoring, teaching, and public outreach). This position includes funding for travel to two conferences, workshops, or other networking and training opportunities each year.

The ideal candidate for this position will take advantage of the opportunity to gain substantial experiences integrating research with undergraduate education. EWU is a regional comprehensive university and the 20 faculty members in the Biology Department excel in undergraduate research and education. The Biology Department also hosts a Master's of Science program that enrolls 25 students. EWU is located in Cheney, Washington, 16 miles south of Spokane, WA, which was recently recognized as one of the up-and-coming small cities in the USA. Situated at the edge of the Rocky Mountains, a few hours' drive from the Cascade Mountains, and multiple large lakes and rivers, the area has a great deal to offer outdoor recreation enthusiasts. There are multiple other universities and research institutes in the area with which EWU faculty maintain active collaborations, including Washington State University, The University of Idaho, Gonzaga University, and Pacific Northwest

National Laboratories.

Apply: <https://jobs.hr.ewu.edu/postings/7946> Contact: Jessica Allen, jallen73@ewu.edu

jallen73@ewu.edu

ETH Zurich Barcoding With CRISPR-Cas

Postdoctoral position in organisms detection from environmental DNA using CRISPR-Cas

The Laboratory of Ecosystem and Landscape Evolution and the Genome Engineering and Measurement Lab (GEML) at the ETH Zurich are looking for candidates to fill a post-doctoral position as part of the fully funded BRIDGE-Discovery project CRISPeD aiming at organisms detection. The Laboratory of Ecosystem and Landscape Evolution is an international research team with diverse scientific expertise and backgrounds, connected by the goal to understand biodiversity. We study the mechanisms that shape biodiversity patterns across spatial and temporal scales - in both terrestrial and aquatic ecosystems and their response to global changes. To make these connections, we collect data through biological monitoring, environmental DNA methods, remote sensing, and field sampling, and use these data to answer questions with statistical and process-based models of biological diversity. We are further committed to translating basic science findings and novel technologies into environmental applications, and thus engage in finding solutions to solve major environmental challenges. GEML is a knowledge and technology Hub aimed at syncing the scientific community with the rapidly evolving genome engineering methods and techniques. We develop, implement, optimise, and analyse cutting edge genome engineering workflows supporting a wide range of research projects at ETHZ, UZH, and the USZ. Our overarching goal is to deploy tools that can target unique genomic sites with the high activity and specificity required for *in vivo* and *in vitro* applications, such as gene and cell therapy, and diagnostics.

Project background

Anthropogenic activities cause disruption to natural ecosystems, which can in turn impact the functioning of human societies. To ensure long-term societal well being, the monitoring of living organisms is becoming increasingly critical in a variety of domains from pathogens and pest detection to stock assessment and biodiversity

protection. A critical challenge is to develop efficient data collection methods of potential biotic concerns that will allow informed management decisions. Engineered CRISPR-Cas reagents associated with a readout system are reported to allow the diagnosis of pathogens in medical samples. In the proposed project, we will generate a programmable approach for CRISPR-Cas to harness this technology and achieve organism detection in environmental DNA samples (eDNA), allowing fast and cost-effective tracking of multiple species' occupancy overtime at multiple sites.

Job description

The position's responsibilities include bioinformatic development of the software to determine guide RNAs for target organisms, developing CRISPR-Cas laboratory protocols for the detection of target organisms of interest from environmental samples, supporting the collection of eDNA samples in the field and applying standard DNA extraction procedure, and increase the operational efficiency of the detection system.

Duration: The position is initially for 24 months and extendable based on progress and evaluation of performance for up to a maximum of four years.

Your profile

You are a dedicated scientist with a doctoral degree in the field of molecular biology, biomedical engineering or related fields with the following expertise:

Experience in standard molecular biology techniques (cloning, PCR) Expertise in bioinformatic and programming in python Experience in the application of CRISPR-Cas protocols would be a plus Expertise in field-collection of medical or environmental sample would be a plus Independent planning, efficient execution and documentation of experiments Excellent communication and writing skills and a strong attitude to work in a team Ability to integrate efficiently various concepts from different disciplines

Please apply here if you meet these criteria:

https://www.jobs.ethz.ch/job/view/-JOPG.ethz_0PtKr8M3aUNNNbx6av We offer

You will work together with a group of technicians, graduate students, and senior scientists to streamline and optimise experimental procedures in the CRISPR/eDNA research domain. Overall, the technology emerging from this project will provide the paradigm shift needed to vastly change the cost, speed and scale with which organisms can be surveyed through time allowing more informed solutions to multiple existing environmental problems.

You will work in an international vibrant team with the

unique opportunity to continuously refine and expand your interpersonal and methodical skills. Read more about working at ETH and our benefits for employees.

We look forward to receiving your online application with the following documents:

CV (include complete list of publications and references we can contact)

Motivation Letter Certificates with transcripts

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FloridaAtlanticU EvolutionaryGenomics

The Assis (<http://assisgroup.fau.edu/>) and DeGiorgio (<http://degiorgiogroup.fau.edu/>) groups at Florida Atlantic University are jointly recruiting a highly motivated postdoctoral scholar to work on NIH- and NSF-supported projects.

Our groups develop statistical and machine learning approaches for tackling a broad range of problems in evolutionary genomics, including detecting different types of natural selection, assessing evolutionary outcomes of structural variations, modeling variation and divergence of gene expression and other traits, and understanding the local adaptation and demographic history of the Americas.

The ideal candidate will have a strong computational background and will be given extensive freedom in choosing their research direction within the broad scope of research areas covered in the groups.

The position will also offer a competitive salary and is located in the beautiful beachside city of Boca Raton, FL.

If interested in applying, please send a current CV to Raquel Assis (rassis@fau.edu) and Michael DeGiorgio (mdegiorg@fau.edu). < <http://assisgroup.fau.edu/> >

Raquel Assis <rassis@fau.edu>

JagiellonianU AmphibianSpeciation

Postdoc: Jagiellonian University in Kraków, Poland

Mitochondrial co-adaptation and speciation in amphibians

We seek a motivated PhD interested in pursuing a postdoc focused on mitochondrial co-adaptation and its role in amphibian speciation.

Mitochondrial protein complexes involved in aerobic respiration are encoded in mitochondrial DNA and nuclear DNA, a condition necessitating co-adaptation between the two genomes. Mitochondrial co-adaptation is broken up by recombination when individuals from divergent lineages (such as different species) mate and produce hybrid progeny. Mitochondrial incompatibilities, i.e. the mismatch between gene products encoded by the mtDNA of one species and nDNA of another, may constitute important postzygotic reproductive barriers. However, several basic aspects of this potentially universal reproductive isolation mechanism remain poorly known. The goal of this project is to evaluate the role of mitochondrial co-adaptation in amphibian speciation.

The post-doc will participate in attaining one or more of the following aims of the project: (1) assess the concordance of patterns of sequence divergence in mtDNA- and nDNA-encoded genes involved in mitochondrial metabolism across the contact zones of hybridizing amphibian species, (2) evaluate the causes of widespread mtDNA introgression in amphibians, (3) assay the functional and fitness consequences of mitochondrial incompatibility in tadpoles.

The post-doc will join a team of researchers led by Maciej Pabijan (http://zap-uj.pl/pabijan_en.html) at the Institute of Zoology and Biomedical Research at Jagiellonian University in Kraków. The position involves molecular lab work (targeted sequencing), demographic modelling and participation in an experiment on tadpole fitness and function in relation to mitochondrial discordance. Depending on his/her interests, the candidate may also contribute to field work (amphibian sampling) in Poland and beyond. The project is funded by the National Science Centre of Poland. The post-doc position is for 30 months with a salary of ~7 000 PLN (~1 550 Euro) per month, which is reasonable considering the lower living costs of Kraków compared to other European cities. The starting date is negotiable but preferably April or May 2022. For more information

contact Maciej Pabijan (maciej.pabijan@uj.edu.pl)

Maciej Pabijan, PhD Department of Comparative Anatomy Institute of Zoology and Biomedical Research Jagiellonian University Kraków, Poland <http://zap-uj.pl> Maciej Pabijan <maciej.pabijan@uj.edu.pl> Maciej Pabijan <maciej.pabijan@uj.edu.pl>

KAUST RiceWildRelativesPopGen

King Abdullah University of Science and Technology: PostdocPositions: Biological and Environmental Science and Engineering Division (postdoc)

Location Thuwal, Saudi Arabia

Open Date

Jan 18, 2022

Description

We seek a highly motivated, enthusiastic, and computationally savvy postdoctoral fellow to join the Wing Lab at the Center for Desert Agriculture (CDA) at KAUST. The mission of CDA is to use cutting-edge technology to develop novel types of agro-ecosystems that can produce high-yielding crops with less water, fertilizers, and pesticides, and that can make use of marginal soils and saline water. An important component of the Center's activities is the use of agri-genomics to study wild and semi-domesticated plant species with a high degree of adaptation to a hot, arid and saline environment and to repeat the process of domestication (i.e. neo-domestication).

Task The postdoctoral fellow will work on a three-year project aimed at the investigation and utilization of natural variation occurring in wild relatives of rice endemic to the Americas. The main goals of the project are the assessment of biodiversity for conservation purposes, and the identification of suitable targets for neo-domestication Offer We offer a friendly, international, dynamic and team-oriented scientific environment at a young university. In particular, this position offers to work at the interface of population genetics, evolutionary biology, genomics, and conservation of plant genetic resources. We offer a highly competitive salary, free housing and subsidized medical insurance. KAUST supports the offer of 'pilot' flexible and/or remote working arrangements to employees whose job role and duties can be performed from another location and without operational impact. For more information about living

and working at KAUST, please refer to the following websites: <https://www.kaust.edu.sa/en/live> https://hr.kaust.edu.sa/flexible_and_remote_working/ Contact Apply here: <https://apply.interfolio.com/101485> . For questions relating to the position, kindly contact Dr. Rod Wing (P.I. and Director of CDA, rod.wing@kaust.edu.sa), Dr. Rafal Gutaker (Research Leader at The Royal Botanic Gardens, Kew, London, R.Gutaker@kew.org), or Dr. Alice Fornasiero (post-doc in the Wing Lab, alice.fornasiero@kaust.edu.sa).

Position start date is April 1st 2022 and will last for three years.

About KAUST KAUST is an international, graduate-level, merit-based research university dedicated to advancing scientific and technological education and research. Based near Jeddah, Saudi Arabia, KAUST acts as a catalyst of innovation, economic development, and social prosperity in the region and the world through cutting-edge research on four areas of global significance - food, water, energy, and the environment. Through hiring principles based on diversity and inclusion of minority backgrounds, KAUST has attracted top-notch faculty, staff, and students from more than 80 nations all over the world. Expats are very well looked after, with packages including tax-free salary, relocation, accommodation and various additional incentives.

Qualifications

Requirements We seek an outstanding young scientist who has recently been awarded a PhD degree in ecology and evolutionary biology, population genetics or the equivalent. Applicants must have a strong and demonstrated background in computational biology and statistics. Solid knowledge of at least one language in data science and availability to travel for 4 to 6 weeks per year (for the first two years of the project) are required.

Application Instructions

Applications should include: full CV and publication list, a statement of research interests not exceeding one page, and the names/addresses of three academic references.

Rafal Gutaker Research Leader Priority 2, Trait Diversity and Function

Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE

r.gutaker@kew.org info@kew.org

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

Rafal Gutaker <R.Gutaker@kew.org>

LeMansU Comparative Genomics

*Context: *A post-doctoral researcher position is open at Le Mans University (France) and University Laval (Québec, Canada). It is to be filled as soon as possible for a period of one year. This contract is in support of the European H2020 project “GHANA” (<http://ghana.univ-lemans.fr/en/index.html>), which aims at exploring the diversity of diatoms from the genus *Haslea* and its blue marennine-like pigments.

The postdoctoral research project aims at analyzing omic data (genomes and transcriptomes) from different strains and species of the genus *Haslea*, already generated in the partner laboratories. The exploitation of these data will have important outputs at both fundamental and application levels (for instance in blue biotechnology).

*Problematic and objectives: *Diatoms from the genus *Haslea* are marine, mostly benthic or epiphytic organisms. The type species of the genus, *H. ostrearia* (Gaillon) Simonsen, produces the very specific blue pigment marennine, responsible for the greening of marine invertebrates, especially bivalves. So far, the genus *Haslea* encompasses ca. 40 taxa as listed in *Algae-Base* (Guiry & Guiry 2021) distributed all over the world, mostly in temperate waters, but also tropical as well as polar species. Less than 20% of these species produce marennine-like blue pigments. Therefore, *Haslea* is a good model for exploring evolutionarily relevant ecological adaptations of diatoms in general, as well as adaptation with polar and temperate distributions. Currently, six *Haslea* species, including two arctic ones, have been sequenced by both laboratories, some of them using a combination of long and short reads (ONT and Illumina). These sequencing efforts have revealed relatively small genomes, from 60 to 100Mb, with probable high density gene content and high level of repeats. The aim of this project is to exploit all available genomic data of *Haslea* species in order to comprehend adaptation in different benthic and pseudo-benthic environments, in particular between temperate and polar regions. This will have important outputs both for fundamental research (diatom genome evolution, specific biosynthesis pathways) and biotech applications (strain selection, added value and bioactive compounds).

*Candidate profile: *The candidate must have a bioin-

formatic background oriented in omic data analyses; genome assembly using long and short reads, annotation, comparative genomics (pan genome, polymorphism, selection). Knowledge in ecology and molecular evolution are appreciated. The candidate must be familiar with UNIX environment and different languages (Bash, Python). Moreover, he/she must be rigorous, autonomous and curious.

*Contact : *

French coordinators are Dr. Myriam Badawi and Pr. Jean-Luc Mouget from the laboratory of Interactions of Organisms, Stress, Health and Environment (BIOSSE, former MMS EA 2160, Le Mans). Canadian coordinator is Pr. Connie Lovejoy from the Institute of Integrative Biology and System (IBIS, Laval, Québec).

Please send resume and letter to:

Myriam.Badawi@univ-lemans.fr

Jean-Luc.Mouget@univ-lemans.fr

connie.lovejoy@bio.ulaval.ca

mbadawi <myriam.badawi@univ-lemans.fr> mbadawi <myriam.badawi@univ-lemans.fr>

LundU Sweden Evolutionary Biology

Postdoc in Evolutionary Biology: plant adaptation to novel pollinators

Lund University, Sweden

The 'Evolutionary Ecology of Plant-Insect Interactions' research group is recruiting a fully-funded postdoctoral researcher (2 years) to work on questions related to plant adaptation to novel pollinator assemblages. The project is led by Dr. Øystein Opedal and will combine existing original data and databases with new field and greenhouse data to better understand the factors affecting evolutionary potential and constraint in plant evolution, with focus on traits functionally involved in plant-insect interactions. The successful applicant will be encouraged to help develop the project in new directions in collaboration with the project team, and the exact project plan will be adjusted based on the background and interest of the applicant. The starting date is negotiable.

Application deadline: 15. January 2022

Questions are welcome to oystein.opedal@biol.lu.se

Further information and info on how to apply is available at <https://lu.varbi.com/department/job/jobID:449723/?lang=en> Øystein Opedal <oystein.opedal@biol.lu.se> Øystein Opedal <oystein.opedal@biol.lu.se>

LundU Sweden Protist Symbiosis Deadline Feb 1

Dear colleagues,

Please see below a brief description of a post-doc position to study symbiotic interactions in protists at Lund University, Sweden.

In the microbial world, symbiotic interactions based on syntrophy (i.e., a type of mutualistic symbiosis where nutrients are exchanged between organisms to allow for metabolic division of labour) are common, especially between prokaryotic organisms in anoxic environments. Such interactions are essential drivers of biogeochemical processes like global carbon, nitrogen, and sulphur cycling. Whether similar roles can be attributed to single-cell eukaryotes (protists) occupying these environments remains unclear owing in large part to our limited understanding of the biology, syntrophic potential, and metabolism of anaerobic eukaryotes.

We're looking for a post-doctoral fellow who will develop single-cell sequencing techniques to investigate the genomic and transcriptomic potential of individual eukaryotic cells and their resident microbial partners isolated from anaerobic environments. These data will be used to approximate metabolic interactions between the organisms. The candidate will have the opportunity to develop new microscopy techniques to monitor cell:cell interactions in collaboration with Drs. Ryan Gawryluk (U. Victoria, Canada) and Edith Hammer (Lund University) as part of an international multidisciplinary research initiative

The prospective post-doctoral fellow will be hosted by Dr. Courtney Stairs with support of the Carl-Tryggers Stiftelsen in the Biology Department at Lund University, Sweden.

More details and how to apply: www.thelabupstairs.online/open-positions Deadline: February 1, 2022 or until position is filled Start date: As soon as possible, Before July 2022 Stipend details: 300 000 kr/year (untaxed) Contact information: Any questions can be directed to

courtney.stairs@biol.lu.se

Courtney Stairs <courtney.stairs@biol.lu.se>

Madrid MicrobeEvolution

Juan de la Cierva Postdoctoral Fellowship at the Polytechnic University of Madrid

We are seeking a highly-motivated and accomplished candidate for a 2-year, fully-funded postdoctoral fellowship in microbial evolution. The candidate must have obtained her/his PhD between January 2020 and December 2021 and have at least one leading author publication (preprints accepted). If successful the Fellow will join the Evolutionary Systems Genetics of Microbes lab (cutt.ly/EvolSysGen) to work in experimental evolution and genomics of rapid adaptation in bacteria. The Fellow will be encouraged to propose an original project related to the research being carried on in the lab. The application process requires the sponsorship of a established researcher, a 3500-character max summary of their accomplishments and research interests and a short CV enlisting qualifications, publications, conferences, outreach, grants and awards. Applications are due February 10th, 2022 with a flexible start date of January 2023. However, since only one candidate will be sponsored, interested candidates should contact a.couce@upm.es before January 25th (IMPORTANT: please include "JdCfellowship" in the subject).

Dr Alejandro Couce Evolutionary Systems Genetics of Microbes Lab Centre for Plant Biotechnology and Genomics (CBGP, UPM-INIA) Technical University of Madrid, Spain

phone: +34 910679195 website: cutt.ly/EvolSysGen address: Campus de Montegancedo, M-40 (Km 38), 28223 Madrid

A Couce <a.couce@upm.es>

MarineBioLab BacteriaHypermutation

Postdoc- Exploring the Functional Role of Genetic Hypervariation in Aquatic Bacteria

The MBL is seeking a candidate for the position of Postdoctoral Scientist in the laboratory of Dr. Blair Paul to investigate the functional role and mechanism of hypermutation in aquatic bacteria. For more information about our lab's research interests, see <https://www.mbl.edu/jbpc/staff/bgpaul/>. The lab uses computational and molecular tools to study processes that diversify microbial genes and to understand the functional importance of hypervariable proteins. Research will involve a synergistic combination of experimental biology and bioinformatics to investigate the phenomenon of targeted hypermutation in bacteria monitored under controlled growth conditions and in their natural environmental setting. The ideal candidate will have expertise in molecular microbiology, genetics, biochemistry, or a related field, which will be complemented with training in genomics.

The position is for two years with potential for extension. Salary will be commensurate with experience and qualifications.

A Ph.D. in microbiology, molecular biology, biochemistry, or in a related field is required.

Please apply on the

MBL website and provide the following required documents: (1) a cover letter describing your interests, skills, and prior research experience; (2) a curriculum vitae/resume; and (3) the names and contact numbers of three persons who can be contacted for letters of reference.

<https://recruiting.ultipro.com/MAR1033MBL/-JobBoard/4c3007c3-6354-41de-a13f-d95be60d91e9/-OpportunityDetail?opportunityId=e37b21fc-52e4-4abb-903a-f5655dd51398> Jennifer DeAlteris <jdealteris@mbledu>

MaxPlanck 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 genotyping 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 programming (Java, C/C++ etc.) or scripting and should have experience 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 Häußler (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>

MichiganStateU PlantMicrobeInteractions

The Gilbert Lab (www.gilbertlab.weebly.com) at Kellogg Biological Station (KBS) is seeking to fill a postdoctoral research associate position to assist with projects addressing questions involving ecological, evolutionary, and physiological dimensions of plant-microbe and plant-arthropod interactions. A key project will involve the use of transcriptomic data to examine the molecular basis of differing pH regulation ability across various host plant species, as well as the effects on their phylloplane microbiomes. This work will contribute to an ongoing USDA-NIFA-funded research project. The primary responsibilities associated with this position include coordinating and leading lab research activities, analyzing data, and writing manuscripts. The successful candidate

will have opportunities at Michigan State University to interact with vibrant intellectual communities at KBS, in the Department of Plant Biology and with members of the Ecology, Evolution, and Behavior Program.

The position is for one year initially, renewable depending on performance and continued funding. Start date range is April 2022-August 2022 ; please describe preferred start date and/or constraints in the cover letter. Salary is \$50,637 USD plus benefits. Successful candidate will also be strongly encouraged to apply for external funding from sources such as NSF and USDA.

Minimum Requirements 1) PhD in relevant field such as biology, molecular biology, bioinformatics or related; 2) demonstrated expertise in molecular ecology, transcriptomics, metatranscriptomics, and/or plant physiology; 3) strong molecular laboratory skills; 4) proficiency in R and Linux programming languages; 4) familiarity performing bioinformatic analyses using high performance computing clusters; 5) ability to work both independently and collaboratively; 6) strong oral/written communication and analytical skills

Desired Qualifications Desired qualifications include some combination of the following skills: 1) manuscript writing and publishing; 2) data curation practices and/or methods development; 3) lab management skills; 4) student mentoring; 5) outreach activities

Required Application Materials 1) Cover letter (2 pages maximum) that describes research interests/goals, relevant experiences and techniques aligned with the focus of this position, as well as motivation for applying to this position and career aspirations

2) CV

3) Contact information for three references (name, position, institution, phone, email)

To apply, please go to <https://careers.msu.edu/en-us/job/509012/research-associatefixed-term> and submit your application as a PDF.

Review of applications will begin on 1 March 2022, continuing until the position has been filled.

Department Statement Kellogg Biological Station (www.kbs.msu.edu) is a premier biological research station located ~65 miles from main campus of Michigan State. It is home to 14 faculty and their graduate students and post-doctoral researchers, with interests ranging from biogeochemistry to community ecology to evolution, as well as full-time research staff, visiting research scientists, and many summer undergraduates. It is also home to sites for several national networks, including: the KBS LTER (NSF-funded) and LTAR (USDA-funded), which investigate the fundamental and

stakeholder-driven ecology of agricultural landscapes, respectively; and the Great Lakes Bioenergy Research Center, examining sustainable bioenergy systems.

MSU Statement Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in the world, MSU pushes the boundaries of discovery and forges enduring partnerships to solve the most pressing global challenges while providing life-changing opportunities to a diverse and inclusive academic community through more than 200 programs of study in 17 degree-granting colleges.

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

Kadeem J. Gilbert, PhD Assistant Professor Kellogg Biological Station Department of Plant Biology Ecology, Evolution, & Behavior Program Michigan State University

Kadeem Gilbert <kadeem.gilbert@gmail.com>

Montpellier Population Genomics

2 years postdoctoral position in population genomics in Montpellier, France

We are looking for a postdoctoral researcher with experience in population genomics to work on an ANR-funded project (ANR PEMILADAPT) addressing the mechanisms of adaptive introgressions in an African crop, the pearl millet (*Penisetum glaucum*). Pearl millet is a major staple crop in Sahelian agriculture and constitutes an asset for future climate-resilient African agriculture. Previous work in the group enlightened the complex history of pearl millet domestication in Western Africa and documented extensive gene flow between wild and cultivated forms (Burgarella *et al.*, 2018). The postdoc will be in charge of population genomics analyses exploring the wild introgression landscape within the cultivated genome. Tasks are expected to include coalescent-based demographic inferences and the characterization of adaptive introgression with machine learning approaches, but the postdoc will be free to investigate its own path of analysis. A dataset of >150 high coverage genomes from African samples are already available.

The position will be based at IRD (French national re-

search institute for sustainable development), in Montpellier, France. The postdoc will closely work with Cécile Berthouly-Salazar (IRD, DIADE/DYNADIV TEAM), Philippe Cubry (IRD, DIADE/DYNADIV TEAM), Miguel de Navascués (INRAE, CBGP) and Concetta Burgarella (Uppsala University). The successful candidate will have the possibility to spend part of his/her time at Uppsala University (Sweden). Collaborations with other ongoing projects on adaptive introgression and speciation during domestication will allow the post-doctoral fellow to benefit from a rich collaborative network, as well as a stimulating working environment in Montpellier, a centre of excellence in (agro)biodiversity research.

Applicants should have a PhD or postdoctoral experience in a relevant area (evolutionary biology, population genomics). We will prioritise someone with a vivid interest in evolutionary biology and speciation/adaptation research and with a strong background in population genomics and statistical genetics. Experience in handling genomic data and population genomics methods, as well as skills in bioinformatics and programming, are required. Previous experience with simulation-based methods would be a plus. Good written and verbal communication skills, interpersonal skills, a strong work ethic, and the ability to think creatively and critically are desired. Working language can be either English or French, depending on the candidate preference.

The appointment is for 24 months, with a flexible starting date between March and June 2022. Salary will be about 2200 euros per month after taxation, depending on experience. Health insurance costs for the candidate and his/her family are included in the taxation (https://www.cleiss.fr/docs/regimes/-regime_france/an.1.html). Foreigners can benefit from government support for housing and children's education depending on their income. French school fees are free or low. Several public schools located in Montpellier area offer international sections (English, Spanish, Arabic, Chinese). Foreign researchers can get additional information and administrative help from Euraxess local office. The city of Montpellier and its surrounding area combine culture, good infrastructure, warm weather (with soft winters), all the amenities within a walking distance and a sophisticated yet not too urbanised lifestyle. Montpellier is a dynamic city with more than 50% of the population under 34 years old because of its universities and its living environment. Montpellier has its own airport with connections to the UK and Europe and a direct train to Paris and other main European cities (Barcelona, Lyon, etc.). Surroundings combined with Mediterranean climate offer great opportunities for outdoor activities in sea and mountain environments.

Informal inquiries are welcome and can be addressed to Cécile Berthouly-Salazar (*cecile.berthouly@ird.fr*) and Concetta Burgarella (*concetta.burgarella@ebc.uu.se*). Full applications should be sent by email to Cécile Berthouly-Salazar and Concetta Burgarella, accompanied by a 1) cover letter, 2) a detailed CV, 3) a list of publications, and 4) two referees contact numbers. Application deadline is set at *15/02/2021*; reviewing of applications will begin soon after the deadline but the position will remain open until a suitable candidate is identified.

Dr. Cécile Berthouly-Salazar IRD Senior researcher <https://sites.google.com/site/-plantbiodiversityadaptation/> phone : +33 (0)467416439

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

Moulis France Habitat Choice Evolution

2-year Postdoc position - Habitat choice evolution in microcosms

Theoretical and Experimental Ecology Station (SETE, Moulis, France)

We are welcoming applications for a funded 2-year Postdoc position beginning around May-June 2022 (start date flexible) as part of the ANR project CHOOSE, to study the environmental drivers of habitat choice evolution using ciliate microcosms. The offer will stay open until the position is filled.

Individuals that choose to leave a habitat to join another are often phenotypically different from those that stay in this habitat. The major consequences of non-random dispersal decisions that are both phenotype- and context-dependent have been recently developed under habitat choice theory. Compared to random dispersal, this theory predicts that habitat choice based dispersal should generate spatial heterogeneity of phenotypes and thus lead to drastically different consequences for a variety of ecological and evolutionary dynamics such as range distribution, metapopulation dynamics and local adaptation. However, our comprehension of what drives the evolution of habitat choice and its ensuing

consequences remains weak, especially because of the lack of experimental approaches dedicated to testing theoretical predictions.

The postdoc project specifically aims at testing experimentally theoretical predictions about the conditions required for habitat choice evolution, and its interactions with local strategies like phenotypic plasticity. The hired postdoc will join a dynamic team whose research interests range from understanding the genetic mechanisms underlying individual phenotypes, including dispersal, to the consequences of variability in phenotypic strategies for populations, communities and ecosystems, using both theory and experiments.

The position will be supervised by Staffan Jacob, and will closely interact with Bart Haegeman (Theoretical and Experimental Ecology Station, CNRS, France) plus other membres of the team involved in the project. We are looking for a highly motivated and dynamic candidate with deep conceptual interests in evolutionary ecology. Previous experience in microbiology is not mandatory.

Applicants should send a cover letter and a CV to Staffan Jacob (staffan.jacob -at- sete.cnrs.fr).

Related publications: Raffard A, Bestion E, Cote J, Haegeman B, Schtickzelle N, Jacob S (2022) Dispersal syndromes can link intraspecific trait variability and meta-ecosystem functioning. *Trends in Ecology and Evolution*. in press

Jacob S & Legrand (2021) Phenotypic plasticity can reverse the relative extent of intra and interspecific variability across a thermal gradient. *Proc.Roy.Soc.B*. 288, 20210428

Laurent E, Schtickzelle N, Jacob S (2020) Fragmentation mediates thermal habitat choice in ciliate microcosms. *Proc.Roy.Soc.B*. 287, 20192818

Jacob S, Chainé AS, Clobert J, Huet M, Legrand D. (2019) Variability in dispersal syndromes is a key driver of metapopulation dynamics in experimental microcosms. *The American Naturalist*. 194, 613-626

Jacob S, Laurent E, Haegeman B, Bertrand R, Prunier JG, Legrand D, Cote J, Chainé AS, Loreau M, Clobert J, Schtickzelle N. (2018) Habitat choice meets thermal specialization: competition with specialists may drive sub-optimal habitat preferences in generalists. *Proceedings of the National Academy of Sciences*. 115, 11988-11993.

Jacob S, Legrand D, Chainé AS, Bonte D, Schtickzelle N, Huet M, Clobert J. (2017) Gene flow favours local adaptation under habitat choice in ciliate microcosms. *Nature Ecology and Evolution*. 1, 1407-1410.

Staffan Jacob CNRS Researcher

Theoretical and Experimental Ecology Station UMR 5321, CNRS 2 route du CNRS, 09200 Moulis

Website: jacobstaffan.wordpress.com Twitter: @Staffan-Jacob < <https://twitter.com/staffanjacob> >

NorthernArizonaU PDF PhD TreeConservationGenomics

PhD student in tree genomics and evolution

We are looking for a highly motivated PhD student to work on a recently funded NSF project investigating the link between hybridization and drought tolerance in long-generation tree species. The PhD will join the Forest Genomics Lab at Northern Arizona University (NAU). The position includes a stipend, tuition waiver, and health benefits for 4 years.

Minimum qualifications:

* MSc degree in Genetics, Forest Sciences, Biology, Evolutionary Biology, or related fields of study. * Graduate courses in Genetics and Evolution. * Experience with R, and Perl or Phyton (familiarity with Linux is a plus) * Molecular lab experience. * Availability to start by July 1st, 2022 or Jan 2023.

How to apply: Please send a 1-page statement of interest, CV, unofficial copy of transcripts, GRE scores, and TOEFL scores (international students), and the names and contact information of 3 references by February 7th, 2022. If found to be a good match for the position, you will be encouraged to apply to the graduate program at NAU.

Contact Information: Dr. De La Torre, Amanda.de-la-torre@nau.edu

Postdoctoral Researcher in Conservation Genomics and Restoration of Whitebark pine

We invite applications for a postdoctoral researcher to work on a collaborative project funded by the National Park Service, BLM-Montana and Northern Arizona University. This research project aims to estimate genome-wide levels of diversity that will inform conservation and restoration activities in natural populations of whitebark pine. Whitebark pine (*Pinus albicaulis*) is a five-needle pine species severely affected by disease and pests, as well as drought and fires. The postdoctoral researcher will be based at Dr. De La Torre's Forest Genomics lab

at Northern Arizona University (NAU), with the potential to visit several National Parks in western North America.

Job description:

* Analyze and interpret molecular data * Summarize research results for distribution/communication to the scientific community * Train undergraduate students in molecular techniques to extract DNA/RNA and preparation of libraries for sequencing.

Minimum Qualifications:

* PhD degree in Biology, Evolution, Genetics, Forestry, or related field of study. * Proficiency in R * Experience with large datasets and high-performance computing * Molecular lab experience * Ability to travel for sample collections or attendance to conferences

How to apply: Send your research statement, CV, and the names of 3 references to Amanda.de-la-torre@nau.edu.

Deadline for applications is February 7th, 2022. Start date: July 1st, 2022 (flexible).

For more information, please contact: Dr. De La Torre, Amanda.de-la-torre@nau.edu

Amanda De La Torre <Amanda.de-la-Torre@nau.edu>

Norway EvolutionaryGenomics

Dear All,

We are recruiting an MSCA Postdoctoral fellow within evolutionary/functional genomics.

About the program: The Norwegian University of Life Sciences (NMBU) is inviting prospective candidates to the MSCA -PF-2022 call. The aim of the Master Class is to attract and help highly motivated researchers to successfully apply for an MSCA Postdoctoral Fellowship (1-3 years, expected salary before tax: 790K NOK/year + mobility allowance) with NMBU. The Master Class is also open for candidates applying for a Global Fellowship with NMBU as the return host institution. We will offer a complete training package for MSCA-PF applicants free of charge). Please read more information about the program here. <https://www.nmbu.no/forskning/-euramme/nmbu-msca-pf-masterclass> About the group: Dr. Marie Saitou, Section for Genome Biology, Faculty for Bioscience, NMBU

<https://sites.google.com/view/saitou-lab/home> Our in-

terest is in revealing the biological basis and evolutionary histories of various interesting species by using genomics, bioinformatics and biostatistics.

Keywords: Functional genomics, transcriptome, eQTL, polygenic score, genome- wide association study, population genetics, comparative genomics, natural selection, demographic history. (1) Genomic Diversity and Evolution We are interested in investigating evolutionary history of species and populations such as adaptation and demographic history by comparing population-scale genomes. (2) Connecting Genome to Phenotype We are interested in investigating how the genetic variants contributes phenotypic diversity in the view of evolution. We use functional genomics toolsets, such as RNA-sequencing and genome-wide association study to investigate this question.

Eligibility: - A doctoral degree that was defended no longer than 8 years prior to 14. September 2022. - Any nationality/No age restrictions. - Have not resided or carried out his/her main activity in Norway for more than 12 months in the three years immediately before the call.

The application must contain: The completed Marie Skłodowska-Curie MASTERCLASS NMBU 2022 application form, including: - The name of your preferred supervisor - A research proposal (max 2 p.) - Motivation to choose NMBU as future Host Institution (max 1 p.) - CV and track-record the applicant (max 5 p., see template in the application form)

Please send the completed application to per.ivar.hovring@nmbu.no by March 27th 2022 <https://www.nmbu.no/forskning/euramme/nmbu-msca-pf-masterclass> Sincerely,

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>

NottinghamTrentU MycobacteriumPangenome

We are looking for a postdoctoral fellow to join the group of Dr Conor Meehan at Nottingham Trent University to work on the AMS Springboard funded project "Incorporating whole genome diversity into the clinical epidemiology of Mycobacterium tuberculosis". This

work is done in collaboration with the Iqbal group at EMBL-EBI, Cambridge and the Unit of Mycobacteriology, Institute of Tropical Medicine, Belgium.

The aim of this project is to evaluate the size of the Mycobacterium tuberculosis complex pangenome, its functional diversity, and incorporate this information into public health workflows for detecting transmission. The focus of this position is on evolutionary analyses of large-scale genomic data sets and some creation/modification of SNP calling and molecular epidemiology pipelines. Some supervision of PhD/MSc/BSc students will be involved.

The candidate should hold, or be near completion of, a PhD in a relevant subject (bioinformatics/genomics/evolutionary biology). A strong ability to code in Python, R or similar is required and previous experience in Mycobacterium tuberculosis (phylo)genomics will be an advantage.

The anticipated start date is April/May 2022 with 2 years of funding available.

For informal inquiries please contact Conor Meehan: <https://www.ntu.ac.uk/staff-profiles/science-technology/conor-meehan> For further details and to apply please see: <https://vacancies.ntu.ac.uk/-displayjob.aspx?jobid=9934> "Meehan, Conor" <conor.meehan@ntu.ac.uk>

OregonStateU CetaceanGenomics

POSITION ANNOUNCEMENT - Postdoctoral Scholar

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 the 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>

PennsylvaniaStateU EvolutionaryGenomics

https://psu.wd1.myworkdayjobs.com/-PSU_Academic/job/University-Park-Campus/-Postdoctoral-Scholar—Lasky-Lab—Crop-Evolutionary-Genomics_REQ_0000024109-1 *The Lasky Lab* at The Pennsylvania State University < <https://psu.edu> > is seeking a* Postdoctoral Fellow *with expertise in evolutionary or ecological genomics. Primary responsibility of the Postdoctoral Fellow will be to identify putative climate-adaptive and parasite resistance alleles in sorghum, a key global food security crop, using whole genome resequencing, evolutionary analyses, and ecological modeling. The Postdoctoral Fellow will also collaborate with a team of postdocs at Penn State, Colorado State University and CERAAS-Senegal on field and controlled-environment experiments to test hypotheses on the adaptive value of these alleles; and contribute to development of molecular breeding technology that will allow African breeding programs to deploy these alleles in climate-resilient varieties. The Postdoctoral Fellow will prepare publications for high-quality peer-reviewed journals, present findings at international scientific conferences, and receive mentoring to advance their scientific career. The successful applicant will be committed to rigorous application of the scientific method for genetic discoveries; and equally committed to translating these discoveries for global food security under climate change. The Postdoctoral Fellow will have strong communication skills (written and oral) and commitment to inclusion that will allow them to contribute to and/or lead collaborations across a diverse international team of scientists.

The position is supported for 5 years, as part of a \$25M investment on allele mining for climate adaptation funded by Bill and Melinda Gates Foundation and led by CIMMYT. The successful applicant will hold a PhD in genetics, plant biology, evolution, or related fields.

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, and inclusion in all of its forms. We embrace individual uniqueness, foster a culture of inclusion that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity, and engage all individuals to help them thrive. We value inclusion as a core strength and an essential element of our public

service mission.

*CAMPUS SECURITY CRIME STATISTICS: *

Pursuant to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Pennsylvania Act of 1988, Penn State publishes a combined Annual Security and Annual Fire Safety Report (ASR). The ASR includes crime statistics and institutional policies concerning campus security, such as those concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The ASR is available for review here < <https://police.psu.edu/annual-security-reports> >.

Employment with the University will require successful completion of background check(s) in accordance with University policies.

EEO is the Law < https://www.eeoc.gov/sites/default/files/migrated_files/employers/-poster_screen_reader_optimized.pdf >

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applications without regards to race, color, religion, age, sex, sexual orientation, gender identify, national origin, disability or protected veteran status. If you are unable to use our online application process due to an impairment or disability, please contact 814-865-1473.

Penn State Covid-19 Vaccination or Testing Requirements < <https://hr.psu.edu/careers/covid-19-vaccine-reqs> >

Penn State is committed to the health of our local and global communities. As a condition of employment, all employees are required to comply with COVID-19 vaccination or testing requirements. Click on Penn State Covid-19 Vaccination or Testing Requirements < <https://hr.psu.edu/careers/covid-19-vaccine-reqs> > to learn about the requirements as well as general COVID-19 information at Penn State.

Department of Biology Pennsylvania State University
laskylab.org < <http://www.laskylab.org> >

SYSU Shenzhen FishEvolGenomicsPopGen

Postdoc available in fish evolutionary and population genomics, School of Ecology, SYSU Shenzhen

The fish genomics lab (<http://lab.raycui.com/>) at School of Ecology, Sun Yat-sen university (<https://eco.sysu.edu.cn>) is looking for a motivated postdoctoral researcher to work on an NSFC-funded project in paradise fish evolutionary genomics, starting 2022.

Our lab is interested in the mechanisms and genomic patterns of speciation - the process that Charles Darwin called "the mystery of mysteries". Under this inclusive umbrella, we look at a wide range of topics from hybridization to animal mate choice behavior, from natural to sexual selection, from macro- to micro-evolution and from purifying selection to positive selection.

Our recent publications focused on relaxation of selection and aging in killifishes (Cui et al., 2019; Cell, Cui et al., 2021; Mol. Ecol.), which forms the foundation for the proposed postdoc project.

* Project introduction The postdoc is expected to identify and collect fish specimens from the wild, construct sequencing libraries, and use NGS and third generation sequencing, HiC or stLFR data to perform de novo genome assemblies and annotation, inferring population genetic structure, historical gene flow, genetic load, selective sweeps, hybrid incompatibilities, adaptive introgression, selective pressure in coding and non-protein-coding regions in wild populations. Alternative projects may involve designing and carrying out behavioral, transcriptomic and/or single-cell sequencing experiments to elucidate key olfactory pathways in mate choice.

* Time and place ** The starting time is flexible, but preferably no earlier than 2022/05 and no later than 2022/12. ** The main location is on the brand-new Shenzhen Campus of SYSU (online virtual tour https://720yun.com/t/88vkbe7y7fm?scene_id=87877492). Shenzhen is an international, technologically innovative and economically developed city hosting some of the best known high-tech companies such as BGI, Huawei, Tencent and DJI. The new SYSU campus is located at the Guangming science city, a region planned to become a new science and technology hub surrounded by clusters of life science institutes (<http://www.szgm.gov.cn/english/ScienceCity/index.html>) and shared facilities.

* Candidate requirements ** Depending on the candidate's experience, one can apply for one of the following position types at SYSU: ** Postdoctoral position: <5 years of age, with a Ph.D. degree obtained in no more than 5 years ago, priority given to those with good publication records. ** Assistant Researcher: <8 years of age with no limits on Ph.D. degree date, having one or more first-author publications and with no less than 2 years of postdoctoral research experience. ** The candidate should hold a degree in fields related to biology or bioinformatics,

and should be familiar with computational approaches in genomics, with fluency in R, python/perl and bash. Priority is given to those with backgrounds in evolutionary biology, fish biology, molecular experiments and good English fluency. ** Spoken and written Chinese advantageous but not required.

* Salary and benefits ** Contract limited to 2-3 years for postdocs and 5 years for assistant researchers, pending annual evaluation by the university. ** Internationally competitive salary standards following national and SYSU regulations as listed in <http://rsc.sysu.edu.cn/-postdoctor>. Please inquire for details. ** Postdoc accommodation provided by the university for a highly discounted fee. ** The university facilitates attendance of postdoc/researcher children into its affiliated kindergarten and/or K-12 school. ** Home registry migration to Shenzhen (for Chinese nationals only). ** Research space for postdocs. ** Accessibility to national, provincial and Shenzhen postdoctoral grants. Ph.D. holders from an international university are also eligible for relevant grants in Shenzhen. ** Outstanding researchers have the opportunity to apply for an associate professor position towards the end of their contract.

* Deadline The search will continue until position filled.

* Contact Interested candidates please send your inquiry and CV to Dr. Rongfeng Cui cuirf@mail.sysu.edu.cn.

Rongfeng Cui <cuirf@mail.sysu.edu.cn>

TexasAMU SpeciationGenomics

Postdoctoral Research Associate

Bioinformatics, Hybridization and Speciation

Delmore Lab, Texas A&M University

delmorelab.com

POSITION

We have an NSF-funding postdoc available in our lab. We are looking for someone to collaborate on projects in the fields of hybridization and speciation. The exact projects are flexible but we are especially interested in using existing omics datasets (genomic, transcriptomic and epigenomic) to study these topics. This is a great opportunity get your hands on some genomic data right away while developing your own ideas for future projects.

ENVIRONMENT

We are part of the Biology Department at Texas A&M (<https://bio.tamu.edu>) along with the interdisciplinary programs of Genetics (<https://genetics.tamu.edu>) and Ecology and Evolutionary Biology (<https://eeb.tamu.edu>). These programs bring together members of many departments across campus from a variety of scientific and international backgrounds. The Biology Department is in the middle of making a huge expansion in evolutionary genomics (four new hires this year) making it a great place to work on the topics outlined above. Texas A&M is a Tier 1 institution with a number of research facilities. College Station is a small, friendly university town located between Austin and Houston.

EDUCATION AND EXPERIENCE

PhD in biology, bioinformatics, computational biology, computer science or related fields. Experience working independently with next-generation sequencing data. Even better if you have experience working with these data in the context of hybrid zones. We expect applicants to exhibit a desire to work collaboratively and help maintain a supportive environment in our lab.

APPLICATION

Applicants should send (1) a letter of motivation that includes their research interests and career goals and (2) a CV that includes the names, emails and phone numbers of at least two references to Kira Delmore (kdelmore@bio.tamu.edu). Applications will be reviewed as received. Please get in touch if you have any additional questions.

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

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

“Delmore, Kira” <kdelmore@bio.tamu.edu>

TexasTechU EvoDevoAntSterility

Texas Tech University: Postdoc in developmental genetics and evolution of obligate sterility

The Linksvayer Lab in the Department of Biological Sciences at Texas Tech University in collaboration with Arjuna Rajakumar (McGill University) is seeking a postdoctoral researcher for a new four-year funded NSF

project: Evolutionary developmental systems genetics of obligate sterility in ants. This project is funded through the US NSF Enabling Discovery through Genomic Tools (EDGE) - COMPLEX MULTIGENIC TRAITS TRACK and seeks to understand the developmental genetics and comparative genomics of an exciting and tractable complex phenotype: obligate sterility in ants (see https://www.nsf.gov/awardsearch/showAward?AWD_ID=2128304).

The evolution of eusociality is a major evolutionary transition, where once solitary organisms become developmentally integrated and live in colonies. Eusociality is characterized by a reproductive division of labor between queen and worker castes. In most species, the worker caste has reproductive organs and can reproduce under certain circumstances, while in some species, workers are obligately sterile. Such obligate sterility, where the worker caste loses its ovaries early in development, has evolved 14 times independently in ants. Our project seeks to understand how obligate sterility evolved using an integrative evo-devo approach that combines developmental genetics, comparative transcriptomics, comparative genomics, and functional genomics.

We are especially looking for candidates with previous experience in developmental biology and with molecular techniques (e.g., cloning, in situ/immuno, RNAi/CRISPR). Knowledge of insect development and advanced knowledge of microscopy are assets.

The start date is very flexible but could be as early as February 1, 2022.

Salary will be commensurate with experience, with the NIH NRSA postdoc stipends as a starting guideline (e.g., \$53,760 for 0 years of postdoctoral experience, see <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-049.html>), plus benefits.

Please apply directly at: https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=-25898&siteid=5635#jobDetails=674916_5635 (<https://t.co/ZwZZA7yJ2U>). Please contact Tim Linksvayer (tlinksvayer@gmail.com) or Arjuna Rajakumar (arjuna.k.rajakumar@gmail.com) with any questions or for further information.

Sincerely,

Tim Linksvayer

Associate Professor

Department of Biological Sciences

Texas Tech University

Lubbock, TX 79401 USA

<https://www.depts.ttu.edu/biology/People/Faculty/>

[linksvayer/](#) Tim Linksvayer <tlinksvayer@gmail.com>

Ferriere: regisf@arizona.edu

Dr. Scott Saleska: saleska@arizona.edu

Regis Ferriere <regis.ferriere@bio.ens.psl.eu>

UArizona EcosystemEvolutionaryModeling

Post-doctoral position at the University of Arizona, Department of Ecology and Evolutionary Biology

Evolutionary modeling of ecosystem responses to climate change

We seek a creative Postdoctoral Research Associate with experience in mechanistic modeling of ecological systems and evolutionary dynamics to work in the laboratories of Dr. Regis Ferriere and Dr. Scott Saleska. The position is part of a new Biology Integration Institute (BII), the EMERGE Institute, funded by the National Science Foundation. This year-to-year position will be based at the University of Arizona and will work closely with researchers at the Lawrence Berkeley National Laboratory and other collaborators of the EMERGE Institute.

The candidate will develop new, cutting-edge models to analyze eco-evolutionary feedbacks and dynamics in microbial communities exposed to changing environments, e.g. climate warming. Specific models will be tailored to arctic wetland ecosystems and analyzed to evaluate soil carbon-climate feedbacks.

This project is part of an innovative broadly interdisciplinary effort to advance our understanding of the microbial and genetic mechanisms by which ecosystems respond to climate change. Of particular interest is detecting and quantifying adaptive evolution and disentangling evolutionary responses from ecological ones, such as changes in community composition or species abundance.

The broader effort is the new Biology Integration Institute (BII) EMERGE, designed as a multi-disciplinary collaboration to integrate studies of microbial and plant communities and ecosystem function that have been monitored for more than a decade at Stordalen Mire, in Arctic Sweden. The wealth of -omics and biogeochemical observations and experimental data from incubations and cultures in bioreactors provide an exceptional basis for applying the new theory and models.

More detail about the position and application link at <https://arizona.csod.com/ux/ats/careersite/4/home/-requisition/6042?c=arizona> More about the EMERGE Institute: <https://emerge-bii.github.io/> Dr. Regis

UArkansa EvolutionaryBehaviourGenomics

I have revised my ad to emphasize the evolutionary biology aspects of the job- personally I consider behavioral genomics in non-model organisms to be evolutionary biology, but can see how that might not have come through in the preceding ad. Hopefully the below ad will suffice.

Postdoctoral Fellow in Evolutionary Behavioral Genomics at The University of Arkansas

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 Pathol-

ogy 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 3rd, 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)

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

UArkansas Behavioral Genomics Evolution

Postdoctoral Fellow in Behavioral Genomics and Evolution at The University of Arkansas

The Westerman Lab at the University of Arkansas is seeking a creative and motivated Postdoctoral Fellow to investigate the 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, 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 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 the evolution of animal behavior. Candidates with a strong background in genomics, gene editing, neurobiology, and 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 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 3rd, 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

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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> Erica Lynn Westerman
<ewesterm@uark.edu>

ewesterm@uark.edu

UBordeaux PlantToleranceGenetics

*Post-doc position in Plant Sciences *

/Genetic and functional basis of plant tolerance to multiple stresses./

Two (+1) years position supported by Bordeaux Plant Science (BPS) research program is available in the /Fruit Biology and Pathology research unit /in Bordeaux, France.

This post-doc position is one of 19 offered positions as part of Bordeaux University excellence BPS program, which will provide access to many scientific events and resources. The successful candidate will work in close collaboration with two others post-docs in the Work Package PROMISE which goal is to study plant responses to multistress and trade-offs between tolerance and productivity.

Job description

Plant health is of primary importance to improve and secure food supply of a growing human population. Virus infection is one of the most alarming biotic threats due to the impact of climate change on the spatial and temporal distribution of vectors and viruses. Furthermore,

it has been shown that heat stress largely suppresses the defence responses produced by the plant during a virus infection. Plant tolerance can be defined as a trade-off between stress response and growth maintenance. In order to be able to propose new tolerant varieties, this project proposes to find the genetic and functional bases of tolerance to combined viral and thermal stress. To answer this question, the project uses two complementary plant species: *Arabidopsis thaliana*, as a model, and *S. pimpinillifolium*, as an ancestor and source of diversity for tomato. The project will provide a detailed description of the trade-off between response to combined stresses and growth using phenotypes of disease traits, growth, fitness and metabolic variables in *Arabidopsis* and *S. pimpinillifolium*, and will help to understand the genetic architecture of tolerance through GWAs strategies. In the last year of the project, the post-doctoral candidate will also participate in a meta-analysis of tolerance in a variety of plants subjected to different stresses (thermal, hydric, biotic) in the framework of the PROMISE WP.

Environment

The 'Virology' (V. Schurdi-Levraud), 'FDFE' (F. Delmas) and 'Meta' (P. Petriacq) teams of the Fruit Biology and Pathology/research unit are jointly responsible for this project and are recognised for their expertise in plant genetics, physiology and metabolism. We are located on the plant science campus of the Bordeaux INRAE (French National Research Institute for Agriculture, Food and Environment), France.

Bordeaux is an easy-going and enjoyable UNESCO world heritage french city with many cultural, social, sportive events, famous for its vineyards and only one hour away from marvellous sand beaches.

Applicants

We are looking for highly motivated applicants with a good publication track-record and a strong commitment to research. Skills in quantitative genetics, biostatistics and English communication are expected. Skills/interest in plant pathology and metabolism would be a plus. Applicants should include a cover letter describing their intellectual interests, background, and career goals, as well as a CV and contact information for three recommenders.

Starting date: *April 2022*

*Team/lab website https://www6.bordeaux-aquitaine.inrae.fr/bfp_eng/ Details : <https://filesender.renater.fr/?s=download&token=342af7fe-969b-415e-b5fb-421943a257e4> *Contact *

Dr Valérie SCHURDI-LEVRAUD

Valerie.schurdi-levraud@inrae.fr

Dr Frédéric DELMAS

Frederic.delmas@inrae.fr

Valérie SCHURDI-LEVRAUD Professeure des Universités / Professor** **valerie.schurdi-levraud@inrae.fr valerie.schurdi-levraud@u-bordeaux.fr UMR Biologie du Fruit et Pathologie 1332 71, av. Edouard Bourlaux. CS 20032. 338821 Villenave d'Ornon Cedex. France. Tél. : +33 5 57 12 23 80**

Master Biologie Agrosociences B2AS < <http://www.master-bio-agro-bordeaux.com/> > Master Biologie Agrosociences B2AS Université de Bordeaux website < https://www.u-bordeaux.fr/formation/2020-PRMA_71/biologie-agrosociences >

Valerie Schurdi-Levraud <valerie.schurdi-levraud@inrae.fr>

UCalifornia Berkeley ComputationalGenomics

The Brenner Research Group in UC Berkeley is hiring a postdoctoral researcher. The ad is listed in Science Careers:

<https://jobs.sciencereers.org/job/582274/-postdoctoral-researcher-in-computational-genomics-of-genetic-disease/?LinkSource=PremiumListing> Ana Marij₂ Gonziz₂lez Angel, PhD (she/her) Research Laboratory Supervisor / Program Manager Brenner Research Group University of California, Berkeley +1 (510) 642-9614

Ana Maria Gonzalez Angel <amga@berkeley.edu>

UCalifornia Davis ComputationalPhylogenetics

Postdoc: UCDavis.ComputationalPhylogenetics

A 2 year NIH-funded postdoctoral position in Computational Phylogenetics is available in the Rannala Research Group, Department of Evolution and Ecology, UC Davis (<http://rannala.org>). The recruit would join a collaborative group of researchers contributing to the

development of the open source software BPP (<https://github.com/bpp/bpp>). In particular, the postdoc will participate in developing and implementing new models of introgression, ongoing gene flow among species, and tip-dating into a multi-species coalescent MCMC framework.

Qualifications: A PhD in Biology, Statistics or Computer Science. Experience developing software using MCMC or other stochastic optimization methods. Ability to program in C/C++ and work in a Unix environment. Bioinformatics experience and/or knowledge of molecular genetics and phylogenetics.

Salary: Minimum rates determined by UCOP salary scale and experience: \$54,540 to \$65,292 Annual.

Start-date: Negotiable, but no later than September 2022.

To Apply: Submit a CV, list of publications, statement of research interests, and the names of two referees to brannala@ucdavis.edu. Informal inquiries are welcome. Deadline: Feb 15, 2022.

Bruce Rannala Professor, Evolution & Ecology, UC Davis

Bruce Rannala <brannala@ucdavis.edu>

UCalifornia Davis GenomicsAquaticSpecies

The Genomic Variation Laboratory (GVL) < <https://gvl.ucdavis.edu/> > at the University of California Davis seeks a highly motivated postdoctoral scholar interested in working at the interface of genomics and aquatic species management. The postdoc will be co-supervised by Dr. Andrea Schreier (GVL) and Dr. Melinda Baerwald (California Department of Water Resources < <https://water.ca.gov/> >; DWR). The candidate will be hired through the GVL and attend GVL lab meetings but spend a significant portion of time conducting research with the DWR Genetic Monitoring (GeM) lab, co-led by Dr. Baerwald and Dr. Daphne Gille.

The candidate will apply genetic/genomic techniques such as SNP genotyping and SHERLOCK (CRISPR based genetic identification platform; Baerwald et al. 2020) to answer applied management questions in the San Francisco Bay-Delta ecosystem. As a member of a multi-disciplinary and interagency team, the candidate will collaboratively develop and

implement a new approach for Chinook Salmon race identification combining probabilistic length-at-date models with rapid and accurate SHERLOCK technology. The candidate will apply this integrative approach to cooperatively develop a spring-run Chinook Salmon race identification program in support of calculating annual juvenile production estimates < <https://deltacouncil.ca.gov/pdf/science-program/-fact-sheets/2020-10-22-developing-a-jpe-for-spring-run-chinook-salmon.pdf> >. The candidate will also work with staff having no prior molecular training at field-based water export facilities to pilot test the approach's efficacy for real-time monitoring. It is anticipated that the candidate will publish both open access genetic datasets and peer-reviewed manuscripts based on their research. The Chinook Salmon genetic data collected by the candidate will encompass most major tributaries in California's Central Valley and lend itself to investigations related to life history strategies, species resiliency, and other topics dependent on the candidate's research interests. Although the candidate's research will be directed towards meeting management goals, there will be opportunities to develop independent research projects, mentor junior scientists, and form collaborations with scientists in academia, state, and federal agencies. This is an ideal position for someone interested in pursuing a career in state and federal natural resource management. The candidate will have access to considerable technological resources in the GeM lab, the GVL, as well as the UC Davis Genome Center computing cluster and DNA Technologies sequencing core.

We expect to receive up to three years of funding to support a postdoctoral scholar, starting between Feb 1 and March 1, 2022. Starting salary is \$54,540 with annual step increases. The GVL is an antiracist lab that welcomes individuals from all races, ethnicities, religious backgrounds, gender identities, and sexual orientations to apply. Please see the GVL DEI page < <https://gvl.ucdavis.edu/diversity-equity-and-inclusion> > for more information.

Qualifications

Applicants should have a PhD in ecology, evolution, genetics/genomics, or a related field. We are looking for an independent and collaborative scientist with excellent communication skills, management-relevant experience, and several years of experience conducting molecular genetics benchwork.

How to Apply

To apply, please email to Andrea Schreier (amdrauch@ucdavis.edu) a brief cover letter describing your interest in the position, a CV (including contact info for

3 references), and 2-3 published papers or manuscripts in preparation. Please specifically indicate in the cover letter or CV the date (month and year) that the applicant's PhD was/will be issued. The position will be open until filled. We would like the selected candidate to start by the end of March 2022.

Best,

Andrea

– Andrea Schreier, PhD Adjunct Associate Professor Director, Genomic Variation Lab Meyer Hall 2235 University of California Davis Office (530) 752-0664 Lab (530) 752-6351 <https://gvl.ucdavis.edu/> amdrauch@ucdavis.edu

UCalifornia Riverside SexChromosomeEvolution

Postdoctoral position in sex chromosome evolution/evolutionary genomics

The Campbell lab (<https://www.campbelllab.net/>) in the Department of Evolution, Ecology, and Organismal Biology at the University of California Riverside (<https://eob.ucr.edu/>) is seeking a postdoctoral researcher to work on sex chromosome evolution in a non-model rodent system. The system is novel, tractable and (we think!) fascinating. You will contribute to a large transcriptome study testing for signatures of sexual antagonism and will have freedom to develop this, or additional projects, along your particular lines of interest. There will be opportunities for fieldwork in California and the Pacific Northwest.

Qualifications: You must have completed a PhD (or will have one before the position starts) in evolutionary biology, population genetics, genomics, or a related area. Expertise in a programming language (e.g. R, python) and experience working with transcriptomic and/or genomic data are highly desirable and will accelerate your publication rate.

Start date is flexible up to Fall 2022. Funding is available for two years.

Review of applications will begin immediately and will continue until the position is filled. To apply, please send a pdf with a letter of interest, CV, and contact information for three references to polly.campbell@ucr.edu Informal inquiries are also welcome.

The University of California is an Equal Opportu-

nity/Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law. UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students.

University of California COVID-19 Vaccination Program Policy As a condition of employment, you will be required to comply with the University of California SARS-CoV-2 (COVID-19) Vaccination Program Policy. All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. For new University of California employees, the applicable deadline is eight weeks after their first date of employment.

Polly Campbell Associate Professor Department of Evolution, Ecology & Organismal Biology University of California Riverside Riverside, CA 92521 Office: 3378 Spieth Hall Phone: (951) 827-6111 <https://www.campbelllab.net/> Polly Campbell <polly.campbell@ucr.edu>

UCologne Germany PlantEvolutionarySystemsBiology

1 Postdoc position - 36 Months Evolutionary Systems Biology in Arabidopsis lyrata Lab. J. de Meaux - Cologne

Recently, our lab started to explore the genomic and evolutionary features that associate with the mode of gene expression inheritance. By bridging approaches in population genetics and transcriptomics with the traditions of quantitative genetics, we systematically dissect the component of genetic variation that can directly sustain a response to selection and try to understand the factors that influence the adaptive relevance of specific molecular plant traits. The postdoctoral research associate will expand this line of work and integrate epigenetic, transcriptomic and phenotypic analyses of variation in the obligate outcrossing species *A. lyrata*.

In close collaboration with our international team, the postdoc will also mentor students and actively participate to the lively scientific culture of our lab.

This project is funded by the German Ministry of Research and Education (BMBF) for 36 months. The applicant must hold a PhD in Evolutionary Biology or Quantitative Genetics (Comparative Genomics, Evolutionary Genetics, Plant Breeding or Population genetics) and hold advanced skills in bioinformatic analysis of omics data. Language in the lab is English. Applications or questions regarding the position should be sent by mail to jdemeaux@uni-koeln.de, with the following subject line - Postdoc application Evol Sys Arabidopsis - de Meaux lab. A letter of motivation, a CV and the contact of 3 referees should be provided, all in a single pdf file. — Revision of applications will begin in February 15th 2022 and continue until the position is filled. Funding is for up to 3 years starting on April 1st 2022 (flexible starting date). For more information on our lab and research, visit our website <http://www.botanik.uni-koeln.de/1146.html>. Applicants still in the process of completing their PhD are encouraged to informally contact the PI if they have questions concerning the position. The University of Cologne is an equal opportunity employer in compliance with German laws. People with disabilities are strongly encouraged to apply. Women are also strongly encouraged to apply. Cologne is Germany's vibrant Metropolis on the Rhine. The city is well known for its wild carnival, its famous Kolsch beer, its Cathedral and its vivid contemporary art and musical scene. Cologne is the fourth biggest city in Germany with over a million inhabitants from all over the world and an interesting mix of restored historic buildings and modern post-war architecture. Most importantly, Cologne University is one of the oldest and largest Universities in the Country. Our research group is hosted at the Biological Center of the University of Cologne and associated to the Collaborative Research network SFB680 (<http://www.sfb680.uni-koeln.de>) and to the Excellence Research Cluster CEPLAS (<http://ceplas.eu/de/>), which fosters active interactions between plant scientists of the Universities of Cologne, Düsseldorf and the Max Planck Institute of Plant Breeding Research. In this context, our lab members are assured to start their scientific career in a world-class scientific environment.

Prof. Dr. Juliette de Meaux University of Cologne Plant Molecular Ecology Institute of Botany Biozentrum ZÄÄ¼picher str. 47b D-50674 Cologne Germany
Tel: +49 221 470 8213 jdemeaux@uni-koeln.de

<http://www.botanik.uni-koeln.de/1146.html> Juliette de Meaux <jdemeaux@uni-koeln.de>

UConnecticut EvolutionaryBiol

Summary: The Department of Ecology and Evolutionary Biology at the University of Connecticut is searching for a Teaching and Research Scholar, a position akin to a departmental postdoctoral scholar. This is a two year position which will entail some undergraduate teaching (1 course per year), and research in collaboration with two or more faculty in EEB or related departments at UConn. Details follow, and can be found here: <https://jobs.hr.uconn.edu/en-us/job/495980/research-and-teaching-scholar-assistant-research-professor>

Advertised position:

The Department of Ecology and Evolutionary Biology at the University of Connecticut invites applications for a non-tenure-track Research and Teaching Scholar (Assistant Research Professor). This is a two-year position, renewed annually, to conduct independent research and undergraduate teaching in evolution, ecology, systematics, conservation, and related fields.

The successful candidate will be expected to conduct an independent high-quality research program in collaboration with two or more faculty mentors. One mentor must be in the Department of Ecology and Evolutionary Biology (EEB; <https://eeb.uconn.edu>). The second faculty mentor may be in EEB or a related department. These may include Molecular and Cellular Biology (<https://mcb.uconn.edu/>), Natural Resources and the Environment (<https://nre.uconn.edu>), Physiology and Neurobiology (<https://pnb.uconn.edu>), Geosciences (<https://geosciences.uconn.edu>), Statistics (<https://stat.uconn.edu>), Marine Sciences (<https://marinesciences.uconn.edu>), or another related department. In addition, one semester per year the candidate will teach an undergraduate course in the EEB Department's core curriculum, to be determined based on the intersection of the scholar's expertise and departmental needs. Candidates are also expected to contribute meaningfully to the Department and campus efforts to increase the inclusion of historically underrepresented scientists.

The EEB Department is home to a strong, vital, and professionally active group of committed researchers, teachers, graduate students, and postdocs. Department members enjoy a broad network of collaborations within the Department, across UConn departments, and around the globe. The Department houses a Biodiversity

Research Collection, including an outstanding collection of living plants. For more information about the Department, visit <https://eeb.uconn.edu>. The EEB Department has a Values and Mission statement here: <https://eeb.uconn.edu/values-statement/>. The successful candidate will join a cohort of CLAS Teaching and Research Scholars and will be offered training and support related to teaching, < <https://cetl.uconn.edu/> > career development, and resources to improve recruitment and retention of historically excluded and underrepresented students (<https://diversity.uconn.edu/>). As an Assistant Research Professor, the selected individual will also be eligible to apply to internal institutional programs for research support for travel and supplies, and will have full access to the COR < <https://core.uconn.edu/resources> >2 < <https://core.uconn.edu/resources> >E facilities < <https://core.uconn.edu/resources> > with support for statistical analysis, biophysics, microscopy, sequencing, computational biology, and more.

Qualified applicants should have a history of original research in a relevant field and must have completed their Ph.D. prior to starting work at the University of Connecticut. We particularly encourage applications from candidates that have recently completed, or will soon complete, their Ph.D. and who come from historically excluded and underrepresented backgrounds.

The position is partially funded by sponsoring faculty members. Therefore, candidates must contact potential faculty sponsors prior to applying to ensure the faculty members are willing and able to provide support.

Founded in 1881, UConn is a Land Grant and Sea Grant institution and member of the Space Grant Consortium. It is the state's flagship institution of higher education and includes a main campus in Storrs, CT, four regional campuses throughout the state, and 13 Schools and Colleges, including a Law School in Hartford, and Medical and Dental Schools at the UConn Health campus in Farmington. The University has approximately

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

UCyprus 2 AvianEvolGenomics

We are accepting application for two postdoctoral researcher positions to work with Alexander Kirschel in the Behavioural Ecology and Evolution Lab at the University of Cyprus. One position is for a bioinformatician focusing on RNAseq, IsoSeq and genome-wide association studies of avian traits associated with behaviour. The second is for a researcher with expertise in population genomics, demographic inference and statistical analyses. The successful applicants will work on two new projects involving collaborations with Dr. Bridgett vonHoldt at Princeton University and Dr. Andrea Fulgione at Max Planck Institute of Plant Breeding Research.

The positions are for an initial 12 months, extendable up to 24 months, with a gross annual salary range of euro 26,563.92 - euro 36,208.92 per annum.

The positions will each work on two projects funded by the Cyprus Research and Innovation Foundation (RIF):

1. Leveraging ancestry to investigate the genomics of song and colour in birds

This project focuses on a hybrid zone in South Africa and Eswatini between yellow-fronted and red-fronted tinkerbirds in which it aims to identify genes and regulatory regions associated with key phenotypic traits, including feather colour and song. It involves admixture mapping, genome-wide association studies and RNAseq and IsoSeq based studies to investigate gene expression and expertise in some of those methods as well as in genomic library preparation would be desired.

Some experience with analysis of avian genomes would be helpful but not essential. The position is based at the University of Cyprus, in Nicosia, but is planned to involve a month-long visit to Princeton to work closely with Dr. vonHoldt.

2. Continent-wide genomics of hybridisation and speciation

Here the focus is on establishing the history of isolation, divergence and gene flow among populations of tinkerbirds across sub-Saharan Africa, and in particular across several contact zones using whole genome resequencing and ddRAD sequencing. The project involves sampling across contact zones in Uganda, Tanzania and Ethiopia, and combining those samples with data from

samples collected previously from several further contact zones. The postdoctoral researcher will focus primarily on downstream population genomics analyses, especially in demographic inference, working closely with Dr. Fulgione. The ideal candidate will have expertise in site frequency spectrum and multiple sequentially Markovian coalescent (MSMC) approaches, D statistics, and landscape genomics. The candidate will be proficient in R and experience with GIS is desirable but not essential.

The positions will also involve manuscript preparation and dissemination of results in scientific conferences as well as via other outlets.

Applications are due by 21st January or until the positions are filled. Applications (including a cover letter, CV, details of two referees, and a list of publications) and informal enquiries should be sent to:

Associate Professor Alexander Kirschel Behavioural Ecology and Evolution Lab Department of Biological Sciences University of Cyprus

Alexander Kirschel <kirschel.alexander@ucy.ac.cy>

UCyprus SandBeetleMetabarcoding

A postdoctoral research position in DNA metabarcoding of sand-dwelling beetle assemblages is available at the University of Cyprus.

POSITION: Two-year postdoctoral position at the Molecular Ecology & Evolution Lab of the University of Cyprus, starting 1st of March 2022. The project is coordinated by Dr. Anna Papadopoulou (University of Cyprus) and will be developed in collaboration with Prof. Alfred P. Vogler (The Natural History Museum, London).

PROJECT DESCRIPTION Coastal sand dune ecosystems are highly dynamic environments, due to their unstable substrate and their constant change in response to wind, waves, tides and sea-level fluctuations. Habitat instability has been proposed to affect dispersal propensity and/or extinction-recolonisation rates, and thus to play an important role in population dynamics, but empirical evidence remains limited. Previous research of our group has identified low genetic diversity and shallow phylogeographic structure in sand-obligate beetle lineages, in contrast to their close relatives inhabiting inland stable habitats (see Papadopoulou et al., 2009; *Molecular ecology* 18: 2503-2517). This project will aim to assess the demographic effects of habitat insta-

bility at the assemblage level. For this purpose, we will sample systematically ten sand dune ecosystems of different sizes and grades of disturbance along the coast of Cyprus and we will apply whole-organism community mtDNA metabarcoding with rigorous read filtering protocols (see Noguerales et al., 2021; *Molecular ecology* doi:10.1111/mec.16275) to obtain haplotype-level data (i.e., Amplicon Sequence Variants; ASVs) for each of the sampled beetle taxa. Based on the ASV data, we will estimate intrapopulation genetic diversity and metrics of population differentiation for each species and we will apply comparative phylogeographic analyses to test for concerted demographic responses (see Papadopoulou & Knowles, 2015; *PNAS* 113:8018-8024) across sand-dwelling taxa of different traits (e.g., sand-obligate vs. habitat generalists, flightless vs. winged taxa).

RESPONSIBILITIES: 1. Participation in field sampling of sand-dune ecosystems and sample processing. 2. Sanger sequencing for selected voucher specimens. 3. DNA metabarcoding library preparation from bulk Coleoptera samples. 4. Bioinformatic analyses of metabarcoding data at the species (OTUs) and haplotype levels (ASVs) 4. Comparative phylogeographic and population genetic analyses based on the generated ASVs dataset. 5. Publication of results.

REQUIREMENTS: Applicants are required to have: 1. PhD in Evolutionary Biology, Molecular Ecology or related fields. 2. Experience in DNA metabarcoding methods, including relevant wet-lab protocols and bioinformatic analyses. 3. Experience in Linux/Unix and common statistical environments (e.g., R, Python). 4. Excellent oral and written communication skills in English.

Additional desirable skills: 1. Previous work on insects (preferably Coleoptera). 2. Experience in field sampling. 3. Experience in phylogeography and population genetics.

APPLICATION: Applicants should provide the following documents (preferably as a single pdf file): 1. letter of interest (up to 1 page) 2. short CV (up to 2 pages) 3. contact information of two academic referees Interested candidates should submit their applications via email to: meelab.cyprus@gmail.com Application deadline: 15th of January 2022 For informal enquiries please contact us on the email address above.

CONTRACT: Contract duration: 1st of March 2022 until 28th of February 2024. Gross salary: 2,600 euros/month

lab website: <https://-meelab.weebly.com> Anna Papadopoulou <a.papadopoulou05@alumni.imperial.ac.uk>

Jarrold Hadfield <j.hadfield@ed.ac.uk>

UEdinburgh EvolutionaryGenetics

A 3-year postdoctoral research position based at the University of Edinburgh is available in the labs of Jarrod Hadfield, Darren Obbard and Ben Longdon on the NERC-funded project 'The Additive Genetic Variance of Fitness in Semi-Natural and Laboratory Environments'. We are looking for an enthusiastic and motivated postdoc interested in evolutionary population and quantitative genetics.

The project will focus on a large experiment conducted on field and laboratory populations of *Drosophila melanogaster*. The aim is to estimate the additive genetic variance in fitness under semi-natural conditions, providing the first field-based estimate of this important parameter in an invertebrate. By conducting a replicate experiment under laboratory conditions, we will also be able to estimate the genetic correlation between fitness in the lab and the field, allowing us to test the evolutionary and ecological relevance of lab-based fitness estimates. Unlike standard approaches that require measuring survival and fecundity of pedigreed individuals, estimates will be obtained directly from next-generation sequencing using a combination of newly developed theory and new statistical methodology. The approach will also allow us to decompose genetic variation in fitness into genome regions (e.g. sex chromosomes versus autosomes) or genomic functions (e.g. coding versus regulatory) illuminating the genetic architecture of fitness, evolution's most important trait.

Applicants should have a strong background in evolutionary or statistical genetics (population and/or quantitative) and a PhD in a relevant subject area (genetics, evolutionary biology, statistics, or similar). Experience working with genomic data and good bio-informatics and statistical skills would be beneficial, as would a strong track record of independent and creative thinking.

Application can be made at https://elxw.fa.em3.oraclecloud.com/hcmUI/-CandidateExperience/en/sites/CX_1001/job/3081/-?utm_medium=jobshare and informal enquiries can be sent to j.hadfield@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 DhÀⁿ Æideann, clàraichte an Alba, àireamh clàraidh SC005336.

UHelsinki EvolutionCooperation

University of Helsinki, evolution of cooperation

POSTDOCTORAL RESEARCHER IN EVOLUTIONARY ECOLOGY, BEHAVIOURAL ECOLOGY, LIFE-HISTORY EVOLUTION AND GENETICS

Fully funded 3-year position from 1.5.2022 onwards to study the role of genetic and social constraints in maintaining phenotypic variation in cooperative behaviour with the pine sawfly system. Work will include both experimental work such as rearing experiments, behavioural experiments and field experiments as well as quantitative genetic analyses. It is also possible to expand study questions towards molecular ecology level.

Expected results will provide important information on ecological and evolutionary processes that shape the first steps of evolutionary transitions toward more complex sociality: group living and cooperation within a group. Expected results will also have applied importance as they will be used to predict how variation in the social behaviour and its consequences on individual fitness can contribute for the population dynamics of forest pest insects under changing environmental conditions.

The appointed researcher will work in collaboration with the other members of the Sawfly lab-research group, participate for the supervision of undergraduate and graduate students and will be supervised by the team leader Assoc. Prof./Academy Research Fellow Carita Lindstedt-Kareksela.

You can find more information about the job and application process here (DL for applications 1.3.2022):

<https://www2.helsinki.fi/en/open-positions/-postdoctoral-researcher-in-evolutionary-ecology-behavioural-ecology-life-history-evolution-and-genetics>

Research webpage of Carita Lindstedt-Kareksela: <http://www.caritalindstedt.com> Further information about the positions may be obtained from Associate Professor/Academy Research Fellow Carita Lindstedt-Kareksela (carita.lindstedt-kareksela(at)helsinki.fi)

Carita Lindstedt-Kareksela

Associate Professor in ForestEntomology Department of Forest Sciences University of Helsinki, Finland ResearchWebpage:<http://caritalindstedt.com> Evolution in actionproject:<https://www.evolutioninaction.fi/> Phone:

+358 29 415 8190

“Lindstedt-Kareksela, Carita A” <carita.lindstedt-kareksela@helsinki.fi>

UHouston EvoDevoGenomics

The Daane lab at the University of Houston (UH) has an opening for a Postdoctoral Researcher to develop an independent project investigating fundamental mechanisms of evolution and development. Work in the Daane lab revolves around comparative genomics in fishes, with an emphasis on understanding evolution in extreme environments, adaptive radiations and the genetic and developmental basis of key traits. As part of our work, we use zebrafish to test insights gained from comparative genetic studies. More information can be found at our website: <https://www.daanelab.org> The lab is also open to project ideas based on the mutual interests and the expertise of the postdoctoral candidate. Example that projects that could be developed in the lab with existing genetic resources:

1. Convergent evolution in hadal and abyssal fishes.
2. Mechanisms of trait evolution in Antarctic notothenioid fishes, including aglomerular kidneys, low skeletal density, anemia, and enlarged hearts.
3. Evolution of Lake Baikal sculpins, an underappreciated adaptive radiation with parallels to Antarctic notothenioids and deep sea marine lineages

The position is funded for at least two years with extension contingent on continued grant funding. The Daane lab has a strong commitment for mutual success and is dedicated to providing support for all lab members. We will work with the postdoc to develop a research program and publication record that makes the postdoc a strong candidate for an independent position.

Minimum Requirements:

* A doctoral degree in life or computer sciences * Experience in one or more of the following areas is desirable: python programming, bioinformatics, molecular biology, developmental biology, genetics, genomics, evodevo, physiology.

UH is a large public tier-one research university located in the America’s fourth most populous city. Houston is a highly diverse and multicultural city that is known for its world class arts, entertainment, and culinary scene and all with relatively affordable cost of living. Houston is home to a thriving biomedical research com-

munity, including UH, Rice University and the largest medical complex in the world, Texas Medical Center, which contains the MD Anderson Cancer Center, Baylor College of Medicine, Texas Children’s and more. The Department of Biology and Biochemistry at UH is a large, collaborative and interdisciplinary home to over 40 faculty with highly diverse research interests and access to multiple shared core facilities.

To apply, please send a CV and brief statement of interest to Jake Daane at jdaane@uh.edu

“Daane, Jacob” <jdaane@Central.UH.EDU>

UKentucky InsectPopulationGenomics

Postdoc position in insect population genomics

I am seeking an enthusiastic, self-motivated postdoctoral researcher to join my research group at the University of Kentucky (www.julianrdupuis.com) with an anticipated but flexible start during spring of 2022. This position would join a collaborative research group working on the development of molecular diagnostic tools for species identification and pathway analysis in invasive tephritid fruit fly pests. This specific project is funded by the Plant Protection Act (USDA-APHIS) and expands on our previous work (e.g., Dupuis et al. 2019 *Evol App* 12:1641-1660) using population genomics to develop diagnostic tools for the Mexican fruit fly. This project will leverage large population genomic datasets (thousands of individuals) to create/improve diagnostic marker sets for identification/delimitation of sterile insect technique (SIT) strains, genetic characterization of SIT mass rearing colonies, and geographic source determination (pathway analysis).

The applicant will be expected to work independently and supervise technical staff and students, as well as work as part of a larger research team. Required qualifications include strong interpersonal skills and experience in population genomics (data analysis, statistics, curating large datasets), wet-lab molecular biology (RADseq/GBS, WGS resequencing), and bioinformatic analysis of high-throughput sequence data (linux/unix, scripting, etc.). Minimum PhD in genetics, biology, entomology, or similar is required.

Position is full-time and funded for 1 year with opportunity for renewal contingent on continued external funding. Salary is ~\$48,000/year plus benefits. If inter-

ested, please submit a cover letter, CV, and contact info for three references to julian.dupuis@uky.edu.

– Julian R. Dupuis, Ph.D. Assistant Professor Department of Entomology University of Kentucky (859) 562-2544 julianrdupuis.com

“Dupuis, Julian R.” <Julian.Dupuis@uky.edu>

UKoblenz PopulationGenetics

University of Koblenz, Institute for Integrated Natural Sciences Postdoctoral Position in Population Genetics

Application deadline: 19th February 2022

The Department of Zoology, Institute for Integrated Natural Sciences, at the University of Koblenz, invites applications for a

Postdoctoral Position.

Preferred starting date: April 1st 2022 Duration: 3 years Salary: German salary scale (TV-L 13, 100%)

We invite applications from highly motivated candidates with a keen interest in population genetics. The position is available within the externally funded project “Condition, dispersal, and population connectivity of two butterfly species in agricultural landscapes”. Using two species with contrasting dispersal ability, we will explore constraints on dispersal in traditional and modern agricultural landscapes. We will use an integrated approach combining field collections, morphological and physiological analyses, common garden experiments, GIS analyses, and fine-scale landscape genomics.

Our department works mainly in the fields of evolutionary ecology and conservation biology. For further information please visit:

<https://www.researchgate.net/profile/Klaus.Fischer>

The successful candidate will (1) hold a Ph.D., preferably in population genetics, (2) have experience with molecular genetic laboratory work, population and landscape analyses, and (3) be capable of doing field work. Experience with one or several of the following programs / methods will be advantageous: ddRADseq; SNP calling; STACKS; EEMS; CIRCUITSCAPE; IBD / IBE / IBR; MAXENT; STRUCTURE / LEA; dbRDA; ARLEQUIN; HIERFSTAT; BAYPASS; BLAST2GO; DIYABC. Excellent English communication skills are essential.

The University of Koblenz is an equal opportunity em-

ployer.

To apply, please provide (i) a letter of motivation including a statement of your research experience, (ii) a scientific CV including publication list and copies of relevant certificates, (iii) names and contact details of two academic referees. Applications should be submitted electronically as a single PDF file to bewerbung-k21@uni-koblenz.de before February 19th 2022. Please mention your name and the call number (03-2020) in your application and in the header of your email.

For any enquiries please contact Prof. Dr. Klaus Fischer via e-mail:

klausfischer@uni-koblenz.de

For the official advertisement see: <https://www.uni-koblenz-landau.de/de/uni/organisation/stellen/-wissenschaftliche-stellen> Prof. Dr. Klaus Fischer Institut für Integrierte Naturwissenschaften Abteilung Biologie Universität Koblenz-Landau Universitätsstraße 1 D-56070 Koblenz

klausfischer@uni-koblenz.de Phone: +49-261-287-2238

Klaus Fischer <klausfischer@uni-koblenz.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, math-

emational 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>

UMaryland OysterGenomics

Postdoctoral Researcher - Oyster Genomics

The University of Maryland Center for Environmental Science (UMCES) Horn Point Lab and University of Louisiana at Lafayette (UL Lafayette) Department of Biology invite applications for the position of a Postdoctoral Researcher with expertise in genomics, bioinformatics, and/or quantitative genetics. Experience with oysters or other shellfish is desired, but not required.

The Postdoctoral Researcher will work as part of the collaborative LO-SPAT project (www.lospat.org), based at UL Lafayette, which seeks to gain a better understanding of how stressors in the estuarine environment (e.g., low salinity) impact the ecology and physiology of the eastern oyster (*Crassostrea virginica*) with the goal of producing more stress tolerant oysters for coastal restoration. The specific role of the Postdoctoral Researcher will be to apply genomic tools to characterize and improve tolerance to low salinity and other stressors faced by oysters in their natural environment utilizing genomic selection and related approaches. Note that in addition to a chromosome-level genome assembly for the eastern oyster, we also now have access to a 66K SNP genotyping array designed for *C. virginica*. The Postdoctoral Researcher will work with the project team, including academic collaborators, private industry, and state agencies on all aspects of the project (60%) and will have the opportunity to pursue individual research projects within that framework (40%). This position will be jointly mentored by Dr. Louis Plough at Horn Point Lab UMCES (<https://www.umces.edu/~louis-plough>) and Dr. Beth Stauffer at UL Lafayette (www.staufferlab.com). While the position is based in Louisiana, we are open to candidates based in Maryland. The position will require travel (weekday, overnight, and weekend) to other universities and to industry and state partners within LA, MS, and MD.

The ideal candidate would possess:

- Ph.D. in a relevant scientific discipline, including but not limited to: population genetics, genomics, or bioinformatics; shellfish aquaculture and quantitative genetics; marine or molecular biology. Degree must be conferred by the start date of the position.
- Record of publication appropriate to career stage
- Experience working as a part of a team and mentoring students (undergraduate or graduate)
- Interest in engaging with

partners and stakeholders from diverse backgrounds and with varied perspectives.

Salary is \$55,000/year. This will be a full-time, 12-month, benefits-eligible position with an initial appointment of 1 year. Continuation of the position beyond the initial appointment is possible up to 2-4 years, total, and will be based on availability of funds and performance.

Informal inquiries about the position can be sent to Drs. Plough (lplough@umces.edu) or Stauffer (beth.stauffer@louisiana.edu), but formal application must be made via the online UL Lafayette HR system: <https://louisiana.csod.com/ux/ats/careersite/1/-home/requisition/1365?c=louisiana> In your application, please include 1) a cover letter describing your research interests and qualifications, 2) CV, and 3) contact information for three professional references. Review of applications will begin immediately and continue until the position is filled. The start date is flexible (please disregard date information in job link), but we are hoping to fill this position by April 1, 2022.

Ann Fairly Pandelides

(she/her) LO-SPAT Project Manager Department of Biology University of Louisiana at Lafayette (337) 482-5229 ann.pandelides@louisiana.edu Office: Billeaud Hall 244

Ann F Pandelides <ann.pandelides@louisiana.edu>

UMichigan FungalEvolution

Postdoctoral Research Associate

Evolution of Fungal Genomes

University of Michigan

Applications are currently being solicited for a talented and motivated post-doctoral research associate to work with the James Mycology Lab (www.umich.edu/~mycology) in the Department of Ecology and Evolutionary Biology at the University of Michigan.

The candidate will be expected to work on one of the ongoing projects related to fungal evolutionary genetics, however, the specific scientific focus can be tailored to the applicant's skill set and developmental goals. Our lab pursues biodiversity discovery and phylogeny using modern genetic approaches. We also explore the adaptive significance of unusual mating systems and recombination mechanisms in fungi. Specific biological systems

include aquatic fungal parasites, viruses of fungi, and pathogenic yeasts. We have developed methods for single cell genome sequencing in fungi in collaboration with the Joint Genome Institute, and through Community Sequencing Projects large data sets being generated that can be used to address fungal phylogeny and genome evolution using these data.

This is a perfect position for someone wanting to gain greater breadth in application areas of bioinformatics and wanting to explore the fascinating biological systems in fungi.

The ideal candidate will have skills in one or more of the following areas: bioinformatics using second or third generation sequencing data, comparative genomics, advanced fluorescence or electron microscopy, molecular biology such as cloning, and working with living cultures. Experience and knowledge in fungal or microbial systems is desired. Opportunities for mentoring undergraduates or research assistants will be provided. The ideal start date is summer of 2022 and review of applications will begin on February 7. The initial appointment is for up to two years pending performance review. Salary range is \$50-\$60,000 USD per year depending on experience.

U. Michigan Mycology

Our lab pursues diverse projects in fungal biology and embraces diverse perspectives and backgrounds in STEM. The lab is in the Department of Ecology and Evolutionary Biology (<http://www.eeb.lsa.umich.edu/-eeb/index.html>), an intellectually stimulating environment in a vibrant college town (Ann Arbor, MI). The lab is also part of the University Fungarium which has a historical collection of over 280K preserved fungi and a large collection of cryopreserved zoospore fungi (<https://czeum.herb.lsa.umich.edu/>)

To Apply

Interested applicants should email Tim James (ty-james@umich.edu) with a CV, cover letter, and the names and contact information of three references.

Representative publications:

Ahrendt, S. R., et al. (2018). Leveraging single-cell genomics to expand the Fungal Tree of Life. *Nat. Microbiol.* 3: 1417-1428. doi: 10.1038/s41564-018-0261-0

Simmons, D. R., et al. (2020). The Collection of Zoospore Eufungi at the University of Michigan (CZEUM): Introducing a new repository of fully bar-coded Chytridiomycota and Blastocladiomycota cultures. *IMA Fungus* 11: 20. doi: 10.1186/s43008-020-00041-z

Myers, J. M., et al. (2020). Survey of early-diverging lineages of fungi reveals abundant and diverse mycoviruses. *mBio* 11: e02027-20. doi: 10.1128/mBio.02027-20

James, T. Y., et al. (2019). Adaptation by loss of heterozygosity in *Saccharomyces cerevisiae* clones under divergent selection. *Genetics* 213: 665-683. doi: 10.1534/genetics.119.302411.

Timothy Y. James (he/him) Professor and Curator of Fungi Department of Ecology and Evolutionary Biology University of Michigan tyjames@umich.edu

Timothy James <tyjames@umich.edu>

UOregon HostMicrobeModeling

The Institute of Ecology and Evolution at the University of Oregon seeks postdoctoral scholars to develop novel theory, mathematical models and/or computational approaches to describe the formation and dynamics of host-associated microbiomes. The scientists in these positions have the opportunity to work with Brendan Bohannan (a microbial ecologist and evolutionary biologist), Peter Ralph (a mathematical biologist) and Bill Cresko (an evolutionary geneticist) to create new perspectives and approaches for understanding microbiomes associated with plant and/or animal hosts.

We are especially interested in candidates with experience modeling the assembly of complex ecological communities and/or modeling the quantitative genetics of complex traits. However there is great flexibility regarding the theoretical approaches used; the scientists in these positions could work within a quantitative genetics framework, a community assembly perspective, some combination of these two, or something completely different. A strong interest in developing novel approaches to modeling microbiomes is preferred, but experience working with or modeling microbiomes is not a requirement.

The Institute of Ecology and Evolution facilitates research and graduate education in ecology and evolutionary biology. The Institute fosters a collegial and stimulating intellectual environment for world-class research in molecular evolution, evolutionary genetics, evolution of development, and microbial, population, community, and ecosystems ecology.

To apply please go to

<https://careers.uoregon.edu/en-us/job/528447/-postdoctoral-scholar> Bill

William A. Cresko, Professor of Biology Executive Director, UO Data Science Initiative Member, Institute

of Ecology and Evolution (IEÅ²) University of Oregon, Eugene, OR 97403-5289 [@wresko](http://www.uoregon.edu/~wresko)

The University of Oregon is located on Kalapuya Ilihi, the traditional indigenous homeland of the Kalapuya people. Today, descendants are citizens of the Confederated Tribes of the Grand Ronde Community of Oregon and the Confederated Tribes of the Siletz Indians of Oregon, and they continue to make important contributions in their communities, at UO, and across the land we now refer to as Oregon.

Bill Cresko <wresko@uoregon.edu>

UOslo SparrowGenomics

Postdoctoral Research Fellow in evolutionary genomics, Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, University of Oslo, Norway

Apply here: <https://www.jobbnorge.no/en/available-jobs/job/214899/postdoctoral-research-fellow-in-evolutionary-genomics> Deadline: 14th January 2022 - ** DEADLINE EXTENDED **

We are looking for a highly motivated candidate for a three-year post doc position as part of this exciting collaborative research project between the University of Oslo, University of Nottingham (UK) and the Netherlands Institute of Ecology (NIOO-KNAW). The researcher will help develop our understanding of the evolutionary origins of human-commensalism in Passer sparrows. The project will focus on two key questions; 1) does human commensalism have a single origin within the house sparrow? and 2) has adaptation to a human-commensal niche occurred in parallel in the tree sparrow?

We aim to combine morphological and genomic data from existing datasets, museum samples and ongoing fieldwork to address the core aims of the project. The successful candidate will be allowed to choose aspects of the larger program as best fits their skills and research interests. They will also be encouraged to develop additional, complementary avenues of research. The researcher will oversee population-level whole genome resequencing from the wet-lab to data interrogation and will be expected to be proficient in bioinformatics (R/Unix/Python) with documented skills in genomic analyses. A PhD in population genetics/genomics, evo-

lutionary genomics, evolutionary biology or a related subject is necessary. Experience with working with birds and bird genomes would be helpful but is not a requirement. The researcher will be based at the Centre for Ecological and Evolutionary Synthesis at the University of Oslo but will also be expected to visit the University of Nottingham (UK) for additional training and support with research visits to the Netherlands. There will likely be opportunities for fieldwork in Central and Southern Asia. The working language of the research group is English.

It is becoming exceedingly clear that humans have been, and still are, drastically altering the planet. Although human activity typically has a negative effect on biodiversity, some species have rapidly adapted to novel niches opened up by human activity. The house sparrow (*Passer domesticus*) is a successful human commensal that thrives in human created niches. It has adapted to urban and agricultural habitats on every continent except Antarctica. Intriguingly, a number of other *Passer* sparrows are also human commensals having likely experienced similar selective pressures; one of the most striking is the Eurasian tree sparrow (*Passer montanus*), which is an obligate commensal across much of East Asia. The overarching aim of this newly funded project (Norwegian Research Council) is to determine the evolutionary causes and consequences of human commensalism in *Passer* sparrows using whole genome resequencing, high resolution phenotyping and extensive fieldwork.

- Applicants must hold a degree equivalent to a Norwegian doctoral degree in evolutionary biology/genetics/genomics. Doctoral dissertation must be submitted for evaluation by the closing date. Only applicants with an approved doctoral thesis and completed defence are eligible for appointment. - Fluent oral and written communication skills in English is required

Desirable qualifications:

- Experience in bioinformatics including in Unix, python and/or R - Experience with population genomic analyses and reconstructing evolutionary histories - Experience in using high-powered computer clusters and resources - A demonstrated record of published scientific research in population genomics, evolutionary biology, evolutionary genetics or a related discipline

We offer: - salary NOK 534 400 - 615 800 per annum depending on qualifications in position as Postdoctoral Research Fellow (position code 1352) - a professionally stimulating working environment - vibrant international academic environment - postdoctoral development plans - attractive welfare benefits and a generous pension agreement, in addition to Oslo's family-friendly environment with its rich opportunities for culture and outdoor

activities

How to apply: The application must include

- Cover letter (statement of motivation, summarizing scientific work and research interest) - CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity) - A complete list of publications and up to 5 academic works

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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>

UOxford Host VirusEvolGenomics

We are seeking to hire a post-doc to investigate paired virus and host genomics at Oxford University.

Project description: The aim of the project is to use paired host-virus genomics to understand why patients respond differently to infections. We are sequencing host and virus genomes from large patient cohorts infected with HCV, HBV and HIV. These cohorts are very well characterised and many clinical phenotypes and biomarkers are measured on all individual. The aims of this study are (1) to identify host polymorphisms that drive evolution of the virus, (2) identify host and virus genetic polymorphisms that drive differences in clinical phenotypes and measured biomarkers independent of each other and (3) detect interactions between host and virus genetics that drive the differences in clinical phenotypes and measured biomarkers. The role can be focused on different aspects of the project depending on your interest and experience for instance on the host genomics and GWAS or on virus genomics, evolution and epidemiology. Depending on your experience you will be involved in development and implementation of new statistical approaches to look for interaction between host and pathogen genetic markers and associations (possibly nonlinear) with multivariate clinical outcomes.

Requirements: A PhD with a strong quantitative component, particularly population genetics, bioinformatics, computational biology, statistics or probabilistic machine learning, computer science or other relevant fields. Experience of working with large datasets is necessary. Computational skills to include experience of

using statistical packages such as R, MATLAB or others. Experience of developing computational pipelines and analytical strategies for complex data sets, especially pathogens. Candidates must be able to express themselves in spoken as well as written English.

Desirable selection criteria: Experience of performing phylogenetics and phylogeographic analyses. An understanding of the genetics of infectious disease, in particular viral genomics. Understanding of concepts in genetics, in particular population genetics. Training in statistical modelling and inference. Understanding of Bayesian statistics. Low-level programming experience (for example, C++). Experience in processing and analysis of next generation sequencing data either DNA or RNA expression.

Instructions for the application: The application has to be made through the University of Oxford portal. The link is provided below: Application deadline: 6 January 2021, if position is not filled we will re-post the position.

Type of employment: Full-time 3 years (part-time and flexible working hours will be considered).

Link for the advert: <https://www.jobs.ac.uk/job/-CLH635/postdoctoral-research-scientist-in-analysis-of-virus-and-host-genomic-data> For further information about the position please contact: Dr. Azim Ansari, ansari.azim@ndm.ox.ac.uk

Azim Ansari <azim.ansari@ndm.ox.ac.uk>

UOxford Paleovirology

Postdoc in Paleovirology, University of Oxford

We seek an accomplished post-doctoral scientist with a track record of excellence to undertake innovative research in the field of paleovirology. Candidates will be expected to have genomic analysis, programming and evolutionary analysis experience, with a background or interest on working with viruses. The position is available immediately for 3 years (with the possibility of extension). The candidate will join the paleovirology research group under the supervision of Professor Katzourakis.

This is an exciting opportunity to work on an ERC funded project on the evolutionary dynamics of viral cross-species transmissions, and the consequences of virus-host gene exchange. The new field of paleovirology has been pioneered by the research group of Professor

Katzourakis. The project will integrate bioinformatics, evolutionary, and experimental techniques, to elucidate the evolutionary processes underlying virus-host interactions.

The postdoctoral researcher will lead in the evolutionary analysis of viral cross-species transmission, and the computational analysis of virus-to-host gene flow. They will be experienced with next generation sequence analysis, be familiar with programming and large scale data handling (e.g. Python and SQL, or equivalent) and will be responsible for the bulk of bioinformatic development and analyses for these objectives.

Duties will primarily include design and implementation of the computational aspects of the project, including genome sequence analysis, and the development and deployment of state of the art phylogenetic based approaches for the inference of evolutionary processes. The candidate will have a proven track record of leading complex computational research in evolutionary biology including design and implementation of analytical tools. The candidate will work closely with the other members of the research team, and contribute to their training and development.

Where Covid-19 has resulted in substantial disruption to your work or research outputs, please explain this by providing an additional paragraph in your supporting statement.

Applications are particularly welcome from women and black and minority ethnic candidates who are under-represented in academic posts in Oxford.

The closing date for applications is 12.00 noon Friday 21st January.

For informal enquiries, e-mail paleovirology@gmail.com.

To apply, go to:

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=152666 Aris Katzourakis <a.katzourakis@gmail.com>

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>

Uppsala Sweden ComputationalBiology

Postdoc in precision livestock farming with a background in computational biology

Swedish University of Agricultural Sciences, Uppsala, Sweden

The research group working on cow social interactions and disease transmission (CSI:DT) is recruiting a fully-funded postdoctoral researcher (2 years) to work on social network analysis and quantitative genetics in dairy cattle. The project is led by Professor Lars Rindler-Schjerve and uses data on positions of cows in two dairy barns collected once every second. Data on more than 200 cows per farm have already been collected for two years and data collection continues. Your primary tasks will be to quantify cows' behaviour using mathematical modelling of social networks and to develop methodology in quantitative genetics. But you are also expected to develop own research ideas connected to social interactions in dairy cows. You will work in an interdisciplinary team with competences in genetics, ethology, epidemiology, statistics, ecology and engineering. For further information

concerning the research group and ongoing research, see <https://www.slu.se/en/faculties/vh/research/-forskningprojekt/not/precision-livestock-breeding/>
Application deadline: 28. January 2022

Questions are welcome to lars.ronnegard@slu.se

Further information and info on how to apply is available at

<https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/?rmpage=job&rmjob=5876&rmlang=UK>

Lars Rönnegård

lars.ronnegard@slu.se

— När du skickar e-post till SLU så innebär detta att SLU behandlar dina personuppgifter. För att få mer information om hur detta gäller till, klicka här < <https://www.slu.se/om-slu/kontakta-slu/personuppgifter/> >

E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, click here < <https://www.slu.se/en/about-slu/contact-slu/personal-data/> >

Lars Rönnegård <Lars.Ronnegard@slu.se>

UppsalaU EvolutionMicrobial-SpeciesInteractions

Title: Post-doctoral position to investigate evolution of novel species interaction using an experimental evolution approach

Location: Uppsala University, Sweden

Duration: Time-limited postdoc scholarship (stipend,100%) for a period of 2 years (starting date will be as soon as possible).

We are seeking to hire a post-doc to investigate the ecological conditions that result in evolution of novel species interactions. To determine these conditions the project will employ an experimental evolution approach and will make use of multi-species systems of bacteria. The research is led by Dr. Omar Warsi and will be carried out at the Department of Medical Biochemistry and Microbiology at Uppsala University, Sweden.

Project description: Ecological interactions are ubiquitous in nature and have been a focus of study for ecologists and evolutionary biologists for over a century. These studies have increased our understanding about the mechanistic basis of these interactions. However, ex-

cept for interactions involving competition for a common resource, very little work has been done to investigate conditions that either cause or result different species to interact in either antagonistic or synergistic manner. Two key questions in this regard are i) How important are the environmental conditions and the genetic make-up of the interacting species in determining the emergence of novel ecological interaction, and ii) can we predict the factors resulting in emergence of different types of interactions, or that lead to a switch between different interactions? The aim of this project is to fill in this gap by making empirical predictions about the emergence of novel interactions between co-occurring bacterial species in different ecological conditions, and by testing the ecological factors that affect these predictions using an experimental evolution approach.

Qualifications: We are looking for a postdoc that has a PhD in evolutionary biology or evolutionary ecology, where the PhD work was focused on bacterial systems. Experience of work with experimental evolution and knowledge of ecological theories of species interactions are desirable. The successful candidate should demonstrate excellent analytical and practical skills, an ability to independently plan experiments, and be enthusiastic to supervise Master's students. They should have high skills in written and spoken English and the ability to work in a multi-disciplinary team.

Instructions for application: To apply, please send your application to Dr. Omar Warsi at omar.warsi@imbim.uu.se.

and include in your application as a single pdf:i)A cover letter briefly describing your research interests and a motivation for why you would be suitable for this position (maximum 2 pages)ii)Curriculum vitae including publication list iii)Copy of proof of passed PhD exam, and iv)Names, email addresses and telephone numbers of two references For further information about the position please contact: Dr. Omar Warsi, omar.warsi@imbim.uu.se

Kind regards, Omar Warsi

Omar Mahmud Warsi <omar.warsi@imbim.uu.se>

UppsalaU PlantGeneticsGenomics

Position for one Postdoc in Ecological Plant Genetics/Genomics at the Evolutionary Biology Centre, Uppsala University, Sweden

We seek a Postdoc to join a project examining the genetic and ecological mechanisms behind adaptive population differentiation in plants, and the capacity for adaptive evolution in natural populations of the plant model organism *Arabidopsis thaliana* in response to environmental change. The research will be conducted within the framework of an international research collaboration. The goals are to identify QTL (quantitative trait loci) contributing to local adaptation and to key traits involved in adaptation, to characterize the effects, genetic basis and geographic distribution of QTL alleles, and to examine whether adaptive evolution in local populations is constrained by trade-offs and pleiotropy, and/or the fixation of deleterious mutations. One focus will be on the genetic basis and adaptive significance of variation in flowering time. Duties include the establishment and monitoring of experiments in the field and under controlled conditions in the lab, QTL-mapping, data analysis, and the preparation of manuscripts for publication. Specific subprojects can be tailored to the skills and interests of the successful candidate.

We are looking for a candidate with a keen interest in population genetics, genomics, QTL-mapping, evolutionary ecology and/or ecophysiology. Proficiency in English is a requirement.

The successful postdoc candidate should have a PhD completed within 3 years of the application deadline (reasons such as prolonged periods of illness and parental leave can motivate a longer period). The postdoc position lasts for two years.

Deadline for application is 1 February 2022.

Please find the announcement, with all information about how to apply, at:

<https://www.uu.se/en/about-uu/join-us/details/?positionId=458104> For informal enquiries, please contact prof Jon Agren, jon.agren@ebc.uu.se, +46-70-643 6364.

Jon Agren Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-756 32 Uppsala Sweden

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

USouthernCalifornia ChromosomeEvolution

Postdoc using chromosome synthesis to study genetics, evolution, and systems biology

The Ehrenreich lab at the University of Southern California (USC) will hire a postdoc to use chromosome synthesis to study the genetic and molecular basis of cellular life and its diversity. We have developed approaches for capturing segments of natural chromosomes and reassembling them into synthetic chromosomes in a programmable manner in yeast. These synthetic chromosomes can be substituted for natural chromosomes and used to address fundamental questions in genetics, evolution, and systems biology, some of which are discussed in <https://www.nature.com/articles/s41467-020-19753-2>. We are presently focused on the minimal genetic requirements for eukaryotic chromosomes and genomes; the phenotypic consequences of changes in gene order and chromosome architecture; the genetic basis of isolation and phenotypic differences between species, if not genera; and the origin and evolution of the mitochondrial compartment. We are also constructing a yeast strain with all transcription factors relocated to a common neochromosome, which will enable minimization and global rewiring of trans gene regulation, as well as a myriad of other basic and applied projects. These projects are funded by NIH, NSF, Agilent, and USC, with a number of additional proposals pending. New project ideas are welcome and the successful candidate will be supported in developing their own trajectories.

Candidates from diverse backgrounds are encouraged to apply. Ideal applicants will likely have expertise in molecular biology, genomics, and computational analysis, as well as compelling intellectual questions about evolution and inheritance that can be answered using chromosome synthesis. Strengths in working with others

and mentoring graduate students and undergraduates are highly desirable. Salary and benefits will be competitive for California and the start date is flexible. Funding is available for at least two years, if not longer. The successful candidate will be expected to apply for post-doctoral fellowships after starting, but the position is not contingent on obtaining a fellowship.

Please direct applications and/or questions to Ian Ehrenreich (ian.ehrenreich@usc.edu). Applicants should include a cover letter describing their intellectual interests, background, and career goals, as well as a CV and contact information for three recommenders. Letters will only be requested for applicants under serious consideration.

Ian Ehrenreich <ehrenrei@usc.edu>

UTexasAMU Pdf Job EvolutionaryEntomology

Postdoctoral position in ecological genomics in the Department of Entomology at Texas A&M U, College Station, TX, USA

We are looking for a postdoc to join Ed Vargo's urban entomology program with an emphasis on the biology of social insects, particularly ants and termites. A major focus of this work will be termite and ant colony breeding structure and phylogenomics of invasive pest species, including the tawny crazy ant, *Nylanderia fulva*, subterranean termites (*Reticulitermes* spp. and *Coptotermes* spp.), as well as other structural pests such as bed bugs and cockroaches. The candidate will have the opportunity to develop independent projects.

Responsibilities include managing independent and team-oriented studies on population genetic structure and ecological genomics of insect pests of the urban environment (ants, termites, cockroaches, bed bugs) to study colony breeding systems, invasion biology and evolution in urban environments; leading data analysis and write-up; timely publication of papers in peer-reviewed journals and presentation of results at scientific conferences; mentoring graduate students and research assistants to carry out projects.

Candidates should have a PhD in biology, ecology, entomology, or related field; experience in population genetics and phylogenomics, including microsatellite and SNP genotyping and/or RNA-seq analysis; demonstrated record of independent research as evidenced by

peer-reviewed publications; excellent oral and written communication skills.

Lab members are expected to uphold our commitment to diversity, equity and inclusion and contribute to a supportive work environment for everyone.

For more information about the position, contact ed.vargo@tamu.edu

To apply, please submit your application to: https://tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/College-Station-AL-RSCH/Postdoctoral-Research-Associate_R-044810

Research Associate position in the Department of Entomology at Texas A&M U, College Station, TX, USA

We are looking for a Research Assistant to support our research program on the biology and management of urban insect pests. The Research Assistant will assist other research personnel, graduate students, and the Endowed Chair in research projects in urban entomology, often conforming to EPA guidelines for product registration. This will involve laboratory and field work on several insect species associated with human-built structures, including various pest ant species, termites, cockroaches, bed bugs and other pests of the indoor environment. Research projects will include studies of insecticide efficacy, behavior, ecology, and genetics of structural pests. Candidates should be proficient in the use of computers for word processing, spreadsheet, and database applications. Strong verbal and written communication skills are required. Candidates should possess the ability to multitask and work cooperatively with others.

Applicants should have a B.S. or B.A. degree in the biological sciences. The ideal candidate will have two or more years' experience working in a research laboratory, or an M.S. degree in a biological science with one year of hands-on experience in a laboratory and will be familiar with the biology and control of insects and other arthropods associated with humans in the urban environment. Proficiency in the sight identification of insects and related organisms using microscopes and hand lens would be an advantage. Applicants should have the ability to write and transmit information by electronic media, in an accurate and timely manner.

Lab members are expected to uphold our commitment to diversity, equity and inclusion and contribute to a supportive work environment for everyone.

For more information about the position, contact ed.vargo@tamu.edu

To apply, please submit your application

to: https://tamus.wd1.myworkdayjobs.com/-AgriLife_Research_External/job/College-Station-AL-RSCH/Research-Assistant_R-044796 “Edward L. Vargo” <Edward.Vargo@ag.tamu.edu>

UUmea 2 Evolutionary Modeling

Two Postdocs in Mathematical Modeling of Microbial Evolution

We are happy to announce two Kempe-funded postdoctoral fellowships available for a start date sometime in 2022. Each position is available for two years and will be based at Umeå University’s interdisciplinary center IceLab in the research group of Eric Libby and also affiliated with the Department of Mathematics and Mathematical Statistics at Umeå University. Candidates should have a quantitative background with an interest in analyzing mathematical models of biological systems. Below we provide descriptions of the two postdocs and the required qualifications, which are quite similar. Importantly we note that these calls are completely open and interested candidates can apply to both.

Postdoc position 1: “Predicting the coevolutionary trajectories of simple microbial communities”

Overview:

The evolutionary fate of microbial communities can be difficult to predict. Even simple systems consisting of only a few species or strains can abruptly shift course, e.g. cooperating bacteria can gain mutations that cause them to compete. While experiments have started to probe the evolutionary trajectories of simple microbial communities, the findings are often idiosyncratic—either due to differences in the specific setup or the fact that evolution relies on chance events. We lack general understanding and, importantly, null models that shape our expectations and allow for predictions. This project addresses these significant gaps in our understanding by harnessing a unique database of metabolic models that the PIs have established to identify broad statistical patterns concerning the nature of putative ecological interactions. The postdoc will simulate eco-evolutionary dynamics with an aim to uncover simple predictive rules. We anticipate the postdoc’s work to open up many additional avenues of exploration that will result in future collaborative ventures both within the team and with IceLab and the broader academic community. This postdoc will be supervised by a team of researchers

at Umeå University: Eric Libby, Peter Lind, Ludvig Lizana, and Björn Schröder.

Application deadline: January 31st

Postdoc position 2: “A theoretical framework for the evolution of beneficial endosymbioses”

A pivotal event in the evolution of life on earth was the endosymbiosis that gave rise to mitochondria and eukaryotes. It is unparalleled in terms of its significance as it is thought to have fueled the evolution of all large, complex life. Yet, unlike other major transition in evolution, we lack model systems or theoretical frameworks to understand its origin and evolution. The central aim of this project is to address this significant knowledge gap by developing theoretical models to study a key step in the evolution of life: the endosymbiosis that led to the mitochondria and the eukaryotic lineage. To this end, we welcome applicants keen to model the evolutionary dynamics of nascent endosymbioses. This is a broad area with multiple directions and possible types of modeling, e.g. differential equations, computer simulations, metabolic models, etc. The appointed candidate will have the opportunity to carry out collaborative research according to a mutually agreed research plan. This postdoc will be supervised by Eric Libby.

Application deadline: February 15th

Qualifications:

To qualify for the fellowships, the candidate should have a PhD degree, or a foreign degree that is deemed equivalent, in one of the following fields: Evolutionary biology, Computational Biology, Mathematical Biology, Microbiology, Molecular Biology, or other related disciplines. A candidate who has not completed their degree prior to this may be considered if special circumstances exist. Special circumstances include absence due to illness, parental leave or clinical practice, appointments of trust in trade unions or similar circumstances. The ideal candidate should have strong skills in implementing and analyzing mathematical models.

The applicant needs additionally to have excellent skills in modern computer programming languages such as C++, Python, MATLAB or R so as to simulate evolutionary dynamics. Personal qualities such as collaboration, communication, strong drive and motivation, critical thinking abilities, creativity and analytical skills are essential. The applicant should be able to perform research independently and as part of a team. Good knowledge of oral and written English is required.

Apply: To apply for postdoc 1, see the official ad: <https://www.umu.se/en/work-with-us/-postdoctoral-scholarships/6-2732-21> To apply for post-

doc 2, see the official ad: <https://www.umu.se/en/work-with-us/postdoctoral-scholarships/6-26-22> Questions:

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UUtah EvolutionaryBiology

Science Research Initiative (SRI) Fellow, University of Utah <https://employment.utah.edu/salt-lake-city-ut/science-research-initiative-sri-fellow/-C65A253AAEB04495968D1631EB2A0000/job/> Job Summary

The College of Science at the University of Utah invites applications for a scientist with a Ph.D. in evolutionary biology or related fields to help support teaching and research in the Science Research Initiative (SRI). The SRI is a unique program that focuses on providing undergraduate students with authentic research experiences during their first and second year of college. For more information on the SRI please click here (<https://science.utah.edu/sri/>).

The SRI Fellow position will provide three (3) years of funded training in mentorship and teaching, as well as the opportunity to develop high-impact undergraduate research experiences at an institution with a world-class research infrastructure and community.

Responsibilities

Unlike traditional postdocs, SRI Fellows will be responsible for developing an independent research program that will be implemented into research streams (see here (<https://science.utah.edu/sri/research-streams/>)) for details on current research streams) that are designed exclusively for first year undergraduate students. Fellows will also be responsible for teaching and supporting undergraduate courses associated with the SRI. SRI fellows will be provided with: research space; access to shared equipment; research funds; and discipline- and pedagogy-specific mentorship. In addition, fellows will liaise with faculty PIs to manage and oversee other research streams related to their area of interest, train teaching assistants, help manage student placement into streams, and help evaluate overall program outcomes.

Minimum Qualifications

Preferences

An ideal candidate will have undergraduate teaching/mentoring experience; a demonstrated commitment to undergraduate mentorship; a demonstrated ability to collaborate constructively with faculty, students, and staff with diverse scientific interests; and experience conceiving and executing complex projects. Researchers interested in pursuing academic positions at primarily undergraduate institutions may be especially drawn to this position, as SRI fellows will have the opportunity to develop a robust plan for undergraduate teaching and research. The position is for three years, subject to review after one year, and can begin as early as July 1, 2022. SRI fellows will receive a competitive salary and funding for research.

Type Benefited Staff

Special Instructions Summary

Interested candidates should submit (1) a cover letter, (2) a CV, (3) a short description of research accomplishments/experience (1 page), (4) a short description of 2-3 proposed research streams including any specialized equipment needed to complete the research (2-3 pages), (5) a teaching/mentorship statement (1-2 pages), (6) a brief statement identifying 2-3 potential mentors (2-3 sentences for each) who you believe would be appropriate to advise on the proposed research streams and/or support your development, and (7) contact information for three references who will be contacted following initial review of applications.

All documents should be submitted in PDF format here <https://employment.utah.edu/salt-lake-city-ut/science-research-initiative-sri-fellow/-C65A253AAEB04495968D1631EB2A0000/job/> For full consideration, applications must be received by February 20, 2022. E-mail questions to SRI@science.utah.edu.

Heather M. Briggs, Ph.D.

Associate Instructor

Science Research Initiative, StreamLeader

University of Utah, College of Science 831.331.1373

Heather Briggs <heather.briggs@utah.edu>

UWarsaw 2PDF 1Tech EvolutionaryBiol

Two 3-year Postdoc positions at the Institute of Evolutionary Biology at the University of Warsaw (Application Deadline: 15/2/2022; starting date: April 2022) -ideally with background in specimen-based to quantitative evolutionary (paleo)biology/(paleo)ecology/(paleo)parasitology (PhD) to join my (future) team working on PARADIVE: the integrated study of parasitism, biodiversity and environmental change.

1st Postdoc (UW/IDUB/2021/91) is more focused on (bio)informatics/programming/data science and setting up an invertebrate paleopathology database and collected new data involving mollusks and/or echinoderms across extinction events to model the association between parasite prevalence and host diversity:

<https://inicjatywadoskonosci.uw.edu.pl/wp-content/uploads/sites/11/2022/01/job->

[UW_IDUB_2021_91_EN.pdf](#) 2nd Postdoc (UW/IDUB/2021/90) is more specimen-based and focuses on parasitic remains associated with vertebrate coprolites and species distribution modeling to co-phylogeny to test the impact of climate change and host extinctions:

<https://inicjatywadoskonosci.uw.edu.pl/wp-content/uploads/sites/11/2022/01/job->

[UW_IDUB_2021_90_EN.pdf](#) There is also a research and technical specialist position (UW/IDUB/2021/89; Deadline: 31/1/2022) which will be closely collaborating with the same team including myself: <https://inicjatywadoskonosci.uw.edu.pl/wp-content/uploads/sites/11/2022/01/job->

[UW_IDUB_2021_89_EN.pdf](#)

All application details can be found in the linked pdfs. If this would not work, the same job offers can also be found here by searching for their mentioned UW/IDUB/2021 designation:

<https://inicjatywadoskonosci.uw.edu.pl/en/job/>

More information on the team/project can be found here: <https://www.biol.uw.edu.pl/dr-kenneth-de-baets-will-join-the-institute-of-evolutionary-biology/> Best regards,

Kenneth De Baets

Kenneth De Baets <kenneth.debaets@gmail.com>

WorkshopsCourses

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ENS Paris ViralDynamics Mar21-25 Jan7Deadline

The QLife Winter School on Quantitative Viral Dynamics Across Scales welcomes applications from MS, PhD, and postdoc applicants to participate in a week-long course at ENS, Paris, France between March 21-25, 2022. The winter school aims to provide a broad, pedagogical foundation to the study of virus impacts on cells, individuals, and populations. Speakers will cover themes from ecological, epidemic, and evolutionary dynamics. There are 25 slots available (MS, PhD & early career encouraged). At present, we intend to hold the event in person, and will be making final decisions in late January/early Feb on format. Plenary speakers include Edze Westra (U of Exeter, UK), Aleksandra Walczak (ENS, France), Vittoria Colizza (INSERM, France), Sylvain Gandon (CNRS, France), and Debbie Lindell (Technion, Israel). More info, including speakers, scientific committee members, and schedule is available on the course website: <https://www.enseignement.biologie.ens.fr/-spip.php?article246&lang=fr>. Scientific Chair: Joshua S. Weitz (Georgia Tech, Atlanta, USA & IBENS, Paris, France, jsweitz@gatech.edu)

“Weitz, Joshua S” <jsweitz@gatech.edu>

FridayHarborLab TaxonomyOfInvertebrates Jul18-Aug19

Biodiversity and Integrative Taxonomy of Invertebrates
Location: Friday Harbor Laboratories Instructors: Drs. Gustav Paulay & Kevin Kocot Dates: July 18 to August 19, 2022 (Summer B) Credits: 9 Designation: FHL/BIO 536

This course will cover methods for documenting and describing species-level diversity of invertebrate animals and applications of these methods in evolution, ecology, resource management, etc. Emphasis will be placed on small and often overlooked taxa (e.g., meiofauna), but the content of the course will be broadly applicable to the study of diverse invertebrates. Typical marine ecosystems hold thousands of multicellular species; metazoan diversity around FHL is likely between 3-5,000

species. A large proportion of marine species are complexes of previously undifferentiated taxa. Many species are identified incorrectly in regional checklists because of a history of fitting local species into named taxa from other regions, ubiquity of cryptic species complexes, and limitations of past approaches. Thus, the taxonomy of most major marine taxa needs to be reevaluated and often redone.

The objectives of this course are to train students broadly in morphological and molecular approaches in invertebrate biodiversity and taxonomy. This course will help train the next generation of researchers who will use integrative taxonomic approaches to document and improve understanding of invertebrate biodiversity. Students will learn the crucial considerations of study design in the field, lab, and bioinformatic stages of this field.

We will be joined by ~10 guest mentors who are world experts in invertebrate taxonomy. These individuals will give guest lectures and work one-on-one with students in the lab.

This course is supported by National Science Foundation grants to the instructors and significant financial aid is available!

For more information, visit: <https://fhl.uw.edu/-courses/course-descriptions/course/integrative-biodiversity-and-taxonomy-of-invertebrates/> Kevin M. Kocot he/him/his Associate Professor, Department of Biological Sciences Curator of Invertebrate Zoology, Alabama Museum of Natural History The University of Alabama Campus Box 870344 Tuscaloosa, AL 35487 Phone:205-348-4052 | Fax: 205-348-4039 kmkocot@ua.edu | www.kocotlab.com Kevin Kocot <kmkocot@ua.edu>

Hinxton ComputationalMolEvolution Jul18-29,DeadlineFeb10

Dear All,

The Wellcome Advanced Workshop on Computational Molecular Evolution runs on 18th–29 July 2022, at the Wellcome Genome Campus, Hinxton, UK. Application deadline is 10 February 2022.

Please visit the web site for details: <https://-coursesandconferences.wellcomeconnectingscience.org/->

[event/computational-molecular-evolution-20220718/](https://www.physalia-courses.org/event/computational-molecular-evolution-20220718/)
thanks and best wishes,

ziheng yang

z.yang@ucl.ac.uk

Obergurgl Austria MountainDiversity Sep5-9 AbstractDeadlineFeb16

Dear all,

Some PhD students and I are organizing a summer school open to PhD students with different backgrounds and interests.

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 is now open, until February 16th:

<https://www.imc2022.info/summerschool/> The summer school takes place in the context of the International Mountain Conference 2022, Innsbruck, Austria: <https://www.imc2022.info/> Please feel free to spread the word among potentially interested colleagues and PhD students.

Thank you and all the best,

Lisa

“Capponi, Lisa” <Lisa.Capponi@uibk.ac.at>

Online aDNAPopGen Jan31-Feb4

Dear all, there are still a few seats available for the online course “Population genomics using ancient DNA data” from January 31st to February 4th.

Course website: (<https://www.physalia-courses.org/-courses-workshops/adna-popgen/>)

The course is aimed at graduate students and researchers in genetics, ecology, and anthropology who are interested in using aDNA data for population genetics inference.

The course is focused on computational methods for aDNA data processing and analysis.

On the first day of the course, participants will learn about the differences between aDNA and DNA obtained from archeological material, and how to control for DNA degradation. From Day 2 through Day 5, participants will learn about the theory and application of the main statistical methods used to analyze aDNA data. The course is structured as a combination of lectures and hands-on exercises, which will be contextualized with real research questions. Hands-on exercises will be run in a Linux environment and visualization will be run in R using RStudio.

Should you have any questions, please do not hesitate to contact us at (<mailto:info@physalia-courses.org>)

Best regards and Happy New Year, 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 AgeDepthModelling May18-29

Statistical Radiocarbon Dating and Age Depth Modelling (RDAD01)

<https://www.prstatistics.com/course/statistical-radiocarbon-dating-and-age-depth-modelling-rdad01/>
18th May 2022-20th May 2022

Course overview:

This course will provide attendees with the basics to understand and implement age-depth models for partially dated stratigraphic data. The focus will be on radiocarbon dating but the approach extends to many other forms of dated information, and will be relevant to those who have a wide variety of palaeo-environmental reconstruction problems. As is common in age-depth modelling, the Bayesian paradigm will be used to create the age-depth models, though no prior experience with Bayesian software or methods is required. The course will cover the use of multiple different R packages though the focus will be on the author’s own Bchron software. Attendees are encouraged to bring their own data sets and explore them using the tools covered during the course.

Course program

Wednesday 18th Day 1: Introduction to Radiocarbon dating; introduction to Bayesian statistics; basics of radiocarbon calibration

Thursday 19th Day 2: Methods for calibrating radiocarbon dating; introducing prior information into radiocarbon date; basics of age-depth modelling

Friday 20th Day 3: Age-depth modelling approaches (Bacon, Bchron, Clam, Oxcal); extending and using age-depth models in palaeo-environmental reconstruction

Emailoliverhooker@prstatistics.com with any questions

<https://www.prstatistics.com/course> Upcoming courses

Introduction to Stan for Bayesian Data Analysis (ISBD01) This course will be delivered live

18 January 2022-20 January 2022

<https://www.prstatistics.com/course/introduction-to-stan-for-bayesian-data-analysis-isbd01/> Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM08) This course will be delivered live

1 February 2022-4 February 2022

<https://www.prstatistics.com/course/stable-isotope-mixing-models-using-r-simm08/> Species Distribution Modeling using R (SDMR04) This course will be delivered live

2 February 2022-10 February 2022

<https://www.prstatistics.com/course/species-distribution-modeling-using-r-sdmr04/> Introduction to eco-phylogenetics and comparative analyses using R (ECPH01) This course will be delivered live

7 February 2022-11 February 2022

<https://www.prstatistics.com/course/introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph01/> Making beautiful and effective maps in R (MAPR03) This course will delivered live

9 February 2022-10 February 2022

<https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr03/> GIS and Remote Sensing analyses with R (GARM01) This course will be delivered live

14 February 2022-17 February 2022

<https://www.prstatistics.com/course/gis-and-remote-sensing-analyses-with-r-garm01/> Movement Ecology (MOVE04)

21 February 2022-25 February 2022

<https://www.prstatistics.com/course/movement-ecology-move04/> Bioacoustics for ecologists: Hardware, Survey design and Data analysis (BIAC02) This course will be delivered live

22 March 2022-24 March 2022

<https://www.prstatistics.com/course/bioacoustics-for-ecologists-hardware-survey-design-and-data-analysis-biac02/> Introduction to Scientific, Numerical, and Data Analysis Programming in Python (PYSC03) This course will be delivered live

13 April 2022-14 April 2022

<https://www.prstatistics.com/course/introduction-to-scientific-numerical-and-data-analysis-programming-in-python-pysc03/> Advances in Spatial Analysis of Multivariate Ecological Data: Theory and Practice (MVSP04) This course is pre-recorded with live help

25 April 2022-29 April 2022

— / —

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

Online EMBO Population Genomics Mar22-30

Deadline for registration is approaching for the upcoming EMBO Practical Course “Population Genomics: background and tools”.

IMPORTANT DATES for this Course:

Deadline for applications: 31/01/2022

Latest notification of acceptance: 18/02/2022

Course dates: 22-30/03/2022

Registration fee waivers and child care grants available!

Full details, including the course programme, invited speakers and the application form, at: <https://meetings.embo.org/event/22-pop-genomics> In this EMBO Practical Course, participants will learn fundamental concepts, advanced approaches and programming skills to reconstruct the demographic history of populations and infer natural selection, using both classic and machine learning-based techniques. Keynote lectures focused on major achievements and future perspectives of population genomics will complement the

training. Lectures and practicals will be delivered by experienced outstanding and inspiring speakers. We expect participants to become fully confident in running analyses on their own after attending the course. This course aims at evolutionary biologists who already have basic bioinformatics skills. Good knowledge of R is a pre-requisite and knowledge of Python is a plus. Ph.D. students and Postdoc researchers will benefit the most out of this course, but applications from all candidates will be evaluated in their context.

Chiara Batini, University of Leicester, UK
 Vincenza Colonna, Consiglio Nazionale delle Ricerche, It
 Andrea Manica, University of Cambridge, UK

“Batini, Chiara (Dr.)” <cb334@leicester.ac.uk>

Online Epigenomics Feb28-Mar4

Dear all,

there are still a few seats available for the course “Gene regulation and epigenomics”.

Dates: Online, 28 February- 4 March

Course website:(<https://www.physalia-courses.org/courses-workshops/course59b/>)

This course will introduce biologists and bioinformaticians to the field of regulatory genomics. We will cover a broad range of software and analysis workflows that extend over the spectrum from the best practices in the quantitative analysis of ChIP-seq and ATAC-seq data to the analysis of the chromatin 3D structure (such as A/B compartments, chromatin loops or TADs). This course will help the attendees gain accurate insights into local and spatial regulatory functions of the chromatin.

The course is aimed at researchers interested in learning how to extract biological insights from genomics data, such as ChIP-seq, ATAC-seq or Hi-C. It is primarily targeting researchers who are relatively new to the field of bioinformatics, with practical experience in the experimental side of epigenomics.

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 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
Machine Learning in R in Biology
Feb21-25**

Dear all,

we have the last 5 seats available on the 3rd edition of the Physalia course “Machine Learning in R”

Dates and Schedule: 21-25 February 2022

Course website: (<https://www.physalia-courses.org/courses-workshops/course43/>)

The objective of the course is to provide a broad hands-on introduction to the use of multivariate methods and machine learning for the analysis of complex biological datasets.

The syllabus has been planned for people with zero or very basic knowledge of machine learning. Students are assumed to have basic familiarity with R programming language.

Programme: (<https://www.physalia-courses.org/courses-workshops/course43/curriculum43/>)

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
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“info@physalia-courses.org” <info@physalia-courses.org>

**Online Morphological Phylogenetics
Feb14-25**

Dear colleagues,

Registration is open for Transmitting Science online course: MORPHOLOGICAL PHYLOGENETICS: PRINCIPLES, APPLICATIONS, AND TECHNIQUES - 5th edition.

Dates: February 14th-25th, 2022

This course will be delivered ONLINE: 35 hours of online live lessons. A good internet connection is required to follow the course.

Max number of students: 18, slots will be allocated in first come, first served basis.

Course Overview:

An accurate reconstruction of evolutionary relationships among species is the cornerstone of evolutionary biology. Building phylogenetic trees thus provides the fundamental framework upon which systematic, biogeographic and evolutionary research operates. Morphological phylogenetics provides a unique toolkit for inferring relationships, considering that the vast majority of the species that have ever lived are now extinct and can only be assessed based on morphological data. Additionally, combining fossils and morphological data with molecular data from extant species is becoming the most comprehensive method of assessing phylogenetic relationships on deep time and the time of origin of major evolutionary lineages.

In this course, we will focus on the analysis of morphological data (and combining morphological data with molecular data) using multiple optimality criteria for phylogenetic inference. We will discuss the best available approaches to construct morphological data sets and their impact on phylogenies. We will follow with theory and hands-on practice of phylogenetic programs using maximum parsimony, maximum likelihood and Bayesian inference. Participants will learn how to combine morphological and molecular data for total evidence analyses, how to conduct time-calibrations using tip and node dating, different birth-death models, morphological clocks and combined evidence relaxed clock analyses.

Softwares: Mesquite, TNT, RAxML, IQTree, Mr. Bayes and BEAST.

More information and registration: <https://www.transmittingscience.com/courses/-evolution/morphological-phylogenetics-principles-applications-techniques/> or writing to courses@transmittingscience.com

With best regards

Sole

– Soledad De Esteban-Trivigno, PhD. (she/her) Scientific Director www.transmittingscience.com Twitter: @soledesteban Instagram: @soledaddeesteban Researchgate: https://www.researchgate.net/profile/Soledad_De_Esteban-Trivigno ORCID: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data,

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Links: — <http://www.transmittingscience.com>
 Soledad De Esteban Trivigno
 <soledad.esteban@transmittingscience.com>

Online OxfordNanoporeGenomeAssembly Apr11-14

Dear all, registration is now open for the Physalia course “Genome Assembly using Oxford Nanopore Sequencing” Dates: 11th-14th April 2022 Course website: (<https://www.physalia-courses.org/courses-workshops/-course59/>) This course will introduce participants to a range of methods to complete the steps required to process raw Oxford Nanopore Technologies sequencing data into a fully assembled, polished and quality-controlled genome assembly, both with and without accompanying short reads, and with and without a reference genome. Over four days, we will include a combination of both theoretical background and practical application using model viral and bacterial datasets, concluding with a full run-through of the assembly, polishing and quality control pipeline at each course participants’ own pace.

This course is intended for researchers interested in learning the background and practical techniques involved in genome assembly using Oxford Nanopore Technologies data. Both beginners and more advanced users are welcome. Some background in navigating the command line would be useful, but we will cover the needed essentials throughout the hands-on sessions.

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
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“info@physalia-courses.org” <info@physalia-courses.org>

Online PlantDivergenceTimes Mar1

As part of the NSF-funded project “The foundation of terrestrial life: Inferring a total-evidence timeline of vascular plant evolution” (NSF#1754705) we are pleased

to announce a (free) up-coming all-virtual workshop on divergence-time estimation. This workshop will span the nitty-gritty to the theoretical, and consist of five weekly zoom seminars with accompanying tutorials (primarily in RevBayes), starting in the first week of March.

Full details, including timing, format, syllabus, instructor team, and application form are available at $i_{\frac{1}{2}}$ <https://mikeryanmay.github.io/-ted.workshop.github.io/> Applications close Jan 28th.

Questions can be sent to me directly at crothfels@berkeley.edu

Carl Rothfels, Assistant Professor and Faculty Curator University Herbarium and Department of Integrative Biology 1001 Valley Life Sciences Building University of California, Berkeley, CA 94720 rothfelslab.berkeley.edu

Pteridophyte Collections Consortium Friends of the Jepson Herbarium

crothfels@berkeley.edu crothfels@berkeley.edu

Online SexChromosomeEvolution Feb14-18 LastCall

Dear all,

registration deadline is soon coming for the Physalia course “Sex Chromosome Evolution” and there are still a few seats available.

Dates: Online, 14-18 February

Course website: (<https://www.physalia-courses.org/-courses-workshops/sexchr/>)

This course will introduce attendees to how the genomic and transcriptomic data can be used to detect homomorphic/heteromorphic sex chromosomes and inform the cause and consequences of sex chromosome differentiation. The instructors will guide students through study design, genomic/transcriptomic data collection methods, handling of raw genomic/transcriptomic data, and methods to identify sex chromosomes. Then, we will work through a suite of analyses looking at the molecular evolution of sex chromosomes, particularly the timing and patterns of recombination suppression, gene gain/loss, gene expression differentiation, and genome divergence. We will provide background on the theory and hands-on exercises, running analysis, and interpreting results. After completing the course, the participants should be

able to manipulate, visualize and interpret genomic data and patterns of sex chromosome evolution.

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
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“info@physalia-courses.org” <info@physalia-courses.org>

Prague OriginLife Jun

A new, grant-funded opportunity seeks early career researchers interested in life’s origins: <https://templetonideaslab.umbc.edu/> Applications are invited to an all-expenses paid position at a 5-day “IdeasLab”* workshop to be held near Prague CZ in June 2022. Thirty successful applicants will be drawn in equal number from the relevant sectors biological evolution, A-Life and theoretical physics. The week’s activities will lead these thirty to form interdisciplinary teams which each propose how they can advance frontiers of abiogenesis research. Up to \$5 million total funding will be available for developing these ideas produced by the week’s activities. Further details of the event, including the online application form, are found at the link posted above

–
Director, Individualized Study Program (INDS) Associate Dean for Undergraduate Academic Affairs Rm 005 Fine Arts UMBC 1000 Hilltop Circle, MD 21250 <http://www.umbc.edu/inds/> Stephen Freeland <freeland@umbc.edu>

Switzerland EvolutionaryBiology,Jun18-25

It is my pleasure to announce the 2022 Guarda summer school in Evolutionary Biology for master and PhD

students. The main aim of the course is to develop the skills to produce an independent research project in evolutionary biology.

The summer school takes place 18. - 25. June (Saturday to Saturday) in the Swiss mountain village Guarda. Faculty includes Hopi Hokstra (Harvard University, USA), John Krebs (Oxford University, UK), Sebastian Bonhoeffer (ETH-Zurich, Switzerland) and Dieter Ebert (Basel University, Switzerland; organizer).

The course is intended for master students and early PhD students with a keen interest in evolutionary biology.

For further information see <http://www.evolution.unibas.ch/teaching/guarda/index.htm> Application is open now. Deadline is 5. February 2022

A Corona safety concept will be used. After a two year break, we hope that this year the summer school will be possible.

Please communicate this information to interested students.

With best wishes,

dieter ebert

– Dieter Ebert University of Basel, Zoology, Vesalgasse 1, 4051 Basel, Switzerland Tel. +41 (0)61 267 03 60 Email: dieter.ebert@unibas.ch

Dieter Ebert <dieter.ebert@unibas.ch>

Tempe Arizona UrbanEvolution May20-21

Dear colleagues, we want to bring your attention to a call for participants (from all career stages) for an NSF-supported, DCL-LTER urban evolution workshop entitled, Multifaceted mechanisms of metropolis: Integrating society, ecology, evolution, and plasticity (SEEP) to advance urban evolutionary ecology.

We invite you to attend a 2-day, hybrid (in-person and virtual) workshop, May 20 & 21, 2022 in Tempe Arizona, the site of the NSF CAP-LTER. Our focus is on the intersection of evolutionary biology, physiological, and behavioral ecology to ask to what extent do organisms respond to the altered climate and resource availability of urban areas via phenotypic plasticity, genetic adaptation, and/or the evolution of adaptive plasticity? This workshop will hone our mechanistic understanding of the

genetic, physiological, and behavioral mechanisms that scale up to population- and community-level changes in the abundance and distribution of animals in metropolitan regions, as well as the human drivers, outcomes, and feedbacks that shape these changes across heterogeneous urban landscapes and over time (see Figure attached). Our focus on mechanistic drivers will center on five human-altered resources and selective agents associated with urbanization: heat, food, water, pollution, and species interactions. Importantly, synergistic and inclusive frameworks that integrate well-being and equity for both human and non-human populations will be necessary for advancing positive ecosystem outcomes and social-ecological solutions.

If you like to think about urban evolution, socio-environmental justice, long-term data, ...– consider joining us for this workshop. If interested please visit our website at:

Seepworkshop.com

And fill out a statement of interest at:

<https://forms.gle/yYEJUVcJyVa19yDe9> to tell us more about yourself, your research interests, career stage, taxonomic focus, and whether you are applying for travel support (financial assistance preference given to ECRs)

Direct further inquiries to any of the PIs listed below, and please feel free to distribute this call widely.

Sincerely, Kevin McGraw, Kevin.McGraw@asu.edu,
Chad Johnson, jchadwick@asu.edu, Paige Warren, swarren@umass.edu, Sarah Diamond, sarah.diamond@case.edu, Chris Schell, cjschell@berkeley.edu, Ryan Martin, ram225@case.edu

James Chadwick Johnson Associate Professor School of Mathematical & Natural Sciences Faculty Honors Advisor, Barrett Honors College (Honors Faculty Fellow) Az State University at the West campus

Senior Sustainability Scientist Global Institute of Sustainability Arizona State University

602-543-6524office,602-543-3428lab Chad's research website Chad's google scholar page

Zoom: <https://asu.zoom.us/j/9417793251> “The moment we cease to hold each other, the moment we break faith with one another, the sea engulfs us and the light goes out.” James Baldwin, Nothing Personal

Chad Johnson <jchadwick@asu.edu>

UBarcelona PhylogenomPopGenom Jul4-15

Dear all,

We have now opened the pre-admission phase to our postgraduate course “Phylogenomics and Population Genomics: Inference and Applications” which will be held in Barcelona (4-15 July 2022).

Pre-enrollment deadline: 18th February 2022

Course website: <https://www.ub.edu/certifem/-ppgcourse> Instructors: <https://www.ub.edu/certifem/-ppgcourse/instructors> Overview:

The course aims to provide a comprehensive and rigorous training on the use of phylogenetic and population genetics methods to infer evolutionary history and diversification mechanisms, at the inter-species and intra-species level, using high-throughput sequencing data. It covers the most popular approaches used in phylogenomic inference, molecular dating, species delimitation, and population genomics to infer demographic history

and to study molecular adaptation. The course places special emphasis on developing practical experience in state-of-the-art software through case studies grounded in current and future applications of phylogenomics and population genomics.

For more information about the program, please visit our website: <https://www.ub.edu/certifem/ppgcourse/-programme> Here is the information about our previous course: <https://www.ub.edu/certifem/ppgcourse/early-editions> TARGET AUDIENCE:

The course is addressed to graduate and postgraduate researchers interested in learning how to handle HTS data to infer population history and phylogenetic relationships, estimate divergence times, or characterize adaptive processes, or in acquiring experience in many other applications of tree-based evolutionary methods.

STRUCTURE

Two weeks course with a mix of lecture and in-class exercises, seminars and discussion sessions.

<https://www.ub.edu/certifem/ppgcourse/schedule>

Should you have any questions, please feel free to contact us: certifem@ub.edu<<mailto:certifem@ub.edu>>

All the best, M.A. Arnedo, Ph.D A. S̃anchez-Gracia, Ph.D

elsanchez@ub.edu elsanchez@ub.edu

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category

“Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be 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.