
E v o l D i r

July 1, 2022

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be “bulletin board” in nature, if there is a “discussion” style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.



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Conferences

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Asilomar California ASN SymposiumCall 2023

AsilomarCalifornia.ASN.Symposium.Call.2023

The American Society of Naturalists

Proposals for Symposia at the ASN stand-alone meeting
in Asilomar 2023

Due July 01, 2022

The American Society of Naturalists will be going back
to Asilomar in Pacific Grove, California, to hold our
stand-alone conference Asilomar 2023 on 6-10 January
2023!

Have an idea for a special symposium? We want to hear
it!

The ASN Symposium Committee invites you to submit
proposals for a special symposium. Proposed sympo-
sium topics should support the Society's goal to advance
the conceptual unification of the biological sciences and
to further knowledge in evolution, ecology, behavior,
and organismal biology. Topics could center around
important emerging issues in evolution, ecology, or be-
havior or focus on a pivotal historical paper, tracing
its impact and exploring current cutting-edge research
inspired by this work. A budget of up to \$8,000 is avail-

able to defray travel, registration, and lodging costs for
speakers.

Proposals should include (1) a title; (2) a description of
the symposium topic (up to one page); (3) a list of six
speakers, including institutional affiliations, who have
agreed to participate in the symposium; (4) a justifica-
tion for the symposium, explaining why the topic and
speakers are appropriate for an ASN symposium (up to
one page).

Please submit proposals by email
(rachel.spigler[at]temple.edu) no later than mid-
night Eastern Time on July 01, 2022. Send your
proposal as a single pdf attachment, under subject
heading 'ASN Asilomar 2023 Symposium Proposal'. A
confirmation email will be sent within 1-2d of receipt.

In line with the ASN's commitment to diversity, we en-
courage including speakers from groups who have been
historically excluded from STEM. Therefore, proposals
that include a diverse list of speakers from a range of
backgrounds, institutions, career stages, geography, gen-
der, race etc. are especially encouraged. The Society's
selection committee will evaluate proposals based on
their potential to attracting substantial audience and
stimulate discussion, the significance and timeliness of
the topic, and on the topic's differing substantively from
recent symposia hosted by the Society. Applicants will
be notified of the decision before the end of July 2022.

Rachel Spigler ASN Symposium Committee
Chair Department of Biology Temple University

rachel.spigler[at]temple.edu

Rachel Spigler <rachel.spigler@temple.edu>

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Bainbridge Washington SelfishEvolution Jul25-28

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

REGISTRATION ENDS JULY 10TH! <https://www.theaga.org/agatwentytwentytwo> President Lila Fishman will hold the 2022 Symposium, July 25-28, 2022, at the beautiful IslandWood campus on Bainbridge Island near Seattle, Washington (with virtual options for speakers and attendees). The Symposium will open Monday evening with a reception and the AGA Key Distinguished Lecture by David Haig, followed by two days of invited talks, panels, and poster sessions on topics spanning the field of genetic conflict and selfish evolution.

Registration includes all meals, talks, and events. The cost is \$300 for students & postdocs, \$450 for AGA members, \$500 non-members. All registrants may submit poster abstracts.

Invited speakers: David Haig, AGA Key Distinguished Lecturer Yaniv Brandvain Justin Havird SaraH Zanders Amanda Larracuenta Daven Presgraves Hanna Johannessen Anna Lindholm Polly Campbell Jenn Coughlan Kelly Dawe Omar Akbari Carl Veller Mia Levine

Islandwood is a non-profit environmental education organization that provides a welcoming space for conferences and special events at its 250-acre campus. There are meadows and forests, delicious and plentiful shared meals, and spacious light-filled meeting rooms and sleeping lodges. We will have the whole campus to enjoy for our symposium registrants and their guests.

Visit the website <https://www.theaga.org/-agatwentytwentytwo> or contact Lila Fishman lila.fishman@umontana.edu for more details.

theaga@theaga.org

Cambridge EvolutionCichlids Sep6-9 RegistrationOpen

Dear colleagues,

It is our pleasure to announce that the registration and abstract submission for Cichlid Science 2022 is now open. The deadline for abstract submission is July 16th. <https://cichlidscience2022.com/> The meeting will take place from the 6th to 9th September in Cambridge. We will also host a cichlid genome editing workshop, which will take place on the afternoon of the 6th. More information regarding the workshop will follow shortly.

We are still working on our invited speaker list, but already have five great invited speakers lined up:

Joana Meier (Wellcome Sanger Institute, UK), Martin Genner (University of Bristol, UK), Joost Woltering (University of Konstanz, Germany), Mary Kishe (Tanzania Fisheries Research Institute, Tanzania) and James-Herbert Read (University of Cambridge, UK).

Please spread the word and share this email with whoever may be interested in attending.

Looking forward.

The organising committee. Richard Durbin, Emilia Santos, Audrey Putman, Bethan Clark, Miguel Almeida and Moritz Blumer

Emilia Santos <cichlid.science.2021@gmail.com>

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Helsinki HennigXXXIX Jul24-28

Dear Colleagues,

As you may know, the Willi Hennig Society organises annual meetings aiming at promoting the debate and exchange between peers in the field of phylogenetics.

The upcoming Willi Hennig Society meeting (HennigXXXIX) will be held in Helsinki (Finland), between the 24th and 28th of July.

Keep in mind that this HennigXXXIX meeting is a hybrid event and the virtual attendance fee is 50 euro. Likewise, travel awards for PhD students and recently graduated researchers who wish to attend in person are available.

Deadlines to notice: - Student awards until the 24th of June. - EARLY BIRD registration until the 24th of June. - Abstracts submission due on the 8th of July.

For further information, please check the details in helsinki.fi/hennigxxxix

Hope to see some of you in Helsinki!

Jorge R. Flores Postdoctoral Researcher Finnish Museum of Natural History LUOMUS - Botany Unit Unioninkatu 44, FI-00014 University of Helsinki, Finland ResearchGate < <https://www.researchgate.net/profile/Jorge-Flores-53> >; GScholar < <https://scholar.google.fi/citations?user=Yl2-uRMAAAAJ&hl=en> >

Jorge Flores <jorgfs88@gmail.com>

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Kiel SMBESatelliteEvolutionaryRescue Sep11-14

SMBE Satellite Meeting on Evolutionary Rescue Kiel University, Germany, 11-14 September 2022

Conference website: <https://workshops.evolbio.mpg.de/event/57/> We are currently living in the Anthropocene and thus an era shaped by human impact. The environmental conditions imposed by these human-driven rapid environmental changes exert selective pressure on natural systems and can result in an evolutionary mismatch between slowly evolving organisms and their new environment, and rapid adaptation of many short-lived species. Evolutionary rescue, which occurs when populations subjected to stress avoid extinction by adaptation through natural selection, is relevant to both consequences: it can help to overcome the evolutionary mismatch and is at the basis of rapid evolution of pathogens.

In this SMBE Satellite meeting we aim to focus on evolutionary rescue in three main fields: species conservation, agriculture, and medicine. These three main fields

currently face unforetold challenges due to evolutionary processes invoked by the dramatic human-mediated changes of the Anthropocene, including:

- Risk of species extinction and thus dramatic reductions in biodiversity due to an evolutionary mismatch caused by climate change, globalization, and pathogen evolution
- Risk of dramatic yield reductions in food production due to an evolutionary mismatch caused by climate change, globalization, and pathogen evolution
- Major threats to human health because of rapid pathogen evolution and increased pathogen spread due to globalization
- Rapid evolution of pathogens, parasites, and pest species and especially fast evolution of resistance to chemotherapy and pesticides

By incorporating diverse perspective from multiple fields, we hope to identify knowledge gaps and putative novel research directions in the context of evolutionary rescue in the Anthropocene.

SECOND CALL FOR ABSTRACTS AND REGISTRATION

(Early bird registration and abstract submission deadline: 20 June 2022) Registration and submission of poster contributions deadline: July 11 Registration for virtual attendance: August 29

Contributed posters will be selected from among the submitted abstracts. Travel fellowships are available upon application.

Looking forward to welcome you in Kiel,

Tal Dagan Reid Brennan Hildegard Uecker

Prof. Dr. Tal Dagan

Genomic Microbiology Group Institute of Microbiology Christian-Albrechts-University Kiel ZMB, Am Botanischen Garten 11 24118 Kiel, Germany

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Tal Dagan <tdagan@ifam.uni-kiel.de>

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MaxPlanck Ploen ModellingMicrobiomes Sep14-17

Dear colleagues,

We are organizing a 3-day workshop on the “Mathematical modelling of microbiomes” at the Max Planck Institute for Evolutionary Biology in Ploen (Germany) in the fall. This will happen on 14-17th September 2022. We want to invite you to this meeting. Below we detail a bit better what we have in mind for the workshop. You can check register and check other details at: <https://workshops.evolbio.mpg.de/event/60/> The deadline for registration is July 1st.

We look forward to welcoming you in Ploen in September!

All the best! Romi Zapien-Campos, Florence Bansept, and Michael Sieber (MPI Ploen)

Abstract

Most multi-cellular organisms do not live in isolation, but cohabit with a set of micro-organisms in a nested ecosystem called the microbiome. Host-associated microbiomes can be essential to host health, and attempts have been made to manipulate them for therapeutic purposes. Yet, we still have little understanding of the ecological and evolutionary processes involved in microbiomes dynamics. Mathematical modeling is a powerful tool to address the biological questions that arise:

- What determines microbiome composition? - How do microbiomes evolve with their hosts? - How is microbiome diversity maintained? - How do microbiomes help the host adapt to its environment? - What are the physical and immunological constraints imposed by the host in various anatomical compartments?

In this workshop, we aim at discussing advances in microbiome modeling, identifying open questions and specificities, as well as framing these topics in the larger eco-evolutionary theory. The emphasis will be on the technical questions that emerge from these works, in particular how to identify relevant assumptions in the building of models. To this effect, we will invite the presenters to adopt a chalk talk format. We encourage the application of researchers at any career stage, working with mathematical tools on any microbiome system. We will strive to create an inclusive and interactive environment with a restricted number of participants

(30-40), reserving some time to discuss the pressing open questions of this research field.

Confirmed speakers include:

- Jonas Cremer (Stanford) - Isabel Gordo (Instituto Gulbenkian de Ciéncia) - Jacopo Grilli (The Abdus Salam International Centre for Theoretical Physics) - Christoph Kaleta (Christian-Albrechts-University Kiel) - Claude Loverdo (Sorbonne Université / CNRS) - Simon van Vliet (University of Basel) - Nicole Vega (Emory University)

Roman Zapien-Campos <zapien@evolbio.mpg.de>

Montreal BEDE Network AnnualMeeting Aug12-13

Attention evolutionary biologists who teach undergraduates:

If you are interested in improving the teaching of data literacy skills in undergraduate biology courses, please see the opportunity below. The Biological and Environmental Data Education Network is looking for biology faculty and instructors to apply to join our first annual network meeting. This opportunity may be particularly interesting to folks who teach introductory biology and both lower and upper level evolutionary biology courses and are looking to bring some data science skills into these classes.

Dear Colleagues,

We invite you to apply to join us at our inaugural annual meeting of the Biological and Environmental Data Education (BEDE) Network, held from August 12-13 at the Palais des congrès in Montreal, Quebec, Canada. Our meeting is scheduled to precede the ESA-CSEE Joint Meeting 2022 (August 14-19). We can provide travel support and we can host virtual attendees.

We are a group of scientists and educators who are dedicated to the advancement of data science education in undergraduate biology and environmental science curricula. Our mission is to provide training and resources for educators to empower them to teach data science skills in their classrooms. We would like you to be part of our team!

The themes of this year’s meeting are Inclusive Pedagogy and Bridging International Borders. With these themes in mind, we will be approaching the topics of curriculum mapping of data science skills, international

collaboration, and overcoming barriers to inclusive data science teaching in biology and environmental science curricula. Dr. Laura MacDonald (Hendrix College) will be our guest speaker.

The application process will be competitive based on the number of applications received and we anticipate the meeting will have approximately 30 in-person attendees. All biology and environmental science faculty, university- and college-level instructors, and post-doctoral researchers are welcome to apply. We have a limited number of spots available for graduate students who have a passion for teaching. Funding is available from the National Science Foundation to support in-person participants, with a virtual participation option for those unable to attend in person. We can provide full financial support, including transportation, three nights accommodation, and meals to successful applicants for in-person attendance.

The deadline to apply is June 24 and successful applicants will be informed by July 1. PLEASE APPLY HERE: <https://forms.gle/Pu9FKDpn7bHCmQZWA> Not ready to commit to a two-day meeting? We are offering a 'train-the-teachers' workshop on August 14 as a part of the ESA-CSEE Joint Meeting. Register for the workshop when you register for ESA-CSEE 2022 Joint Meeting.

In the meantime, join our group on QUBESHUB: <https://qubeshub.org/community/groups/bede> Questions can be directed to bedenetwork@gmail.com

We look forward to welcoming you!

Erika Crispo (Associate Professor, Pace University)

Matthew Aiello-Lammens (Associate Professor, Pace University)

Kelly O'Donnell (Director of Science Forward, Macaulay Honors College)

Sarah Supp (Assistant Professor, Denison University)

Nate Emery (Academic Specialist, Michigan State University)

Kelly O'Donnell <Kelly.ODonnell@mhc.cuny.edu>

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Online ECML AIForMicrobialGenomics DeadlineExt Sep23

Dear all,

We are extending the deadline for the MLMG2022 <<https://mlmg2022.github.io/>> i₂ workshop to Monday June 27th.

Submissions should still be made through easychair: <https://easychair.org/conferences/?conf=mlmg2022> Instructions are available on our i₂ website <https://mlmg2022.github.io/> Meriem El Azami Laurent Jacob Flora Jay Pierre Mahi i₂

On 06/06/2022 15:19, Flora Jay wrote:

Dear all

We invite submissions to MLMG 2022 <<https://mlmg2022.github.io/>>, the ECML-PKDD 2022 workshop on machine learning for microbial genomics to be held virtually, on September 23rd. Submission deadline: June 20th 2022.

Flora Jay <flora.jay@lri.fr>

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

Online MicrobialGenomicsMachineLearning Sep23

Dear all

We invite submissions to MLMG 2022 <<https://mlmg2022.github.io/>>, the ECML-PKDD 2022 workshop on machine learning for microbial genomics to be held virtually, on September 23rd. Submission deadline: June 20th 2022.

The improvement and increasing accessibility of Next Generation Sequencing data calls for innovative data analysis strategies to extract meaningful and actionable information. Machine learning approaches are more and more popular in this context, offering alternative

and complementary tools beyond bioinformatics to analyze genomic data. However, despite the recent advances, their application remains challenging and new approaches that are robust, scalable to large-scale high-dimensional data and interpretable are needed.

This workshop aims to bring together interdisciplinary researchers working at the interface of machine learning and computational biology for the study of microbial genomic data to discuss recent advances in this field. We will also have the privilege of hosting two distinguished speakers from this community to discuss and present their current research.

Typical topics of interest include:

- Improving microbial genome wide association studies (GWAS).
- Phenotype prediction from microbial genomes.
- Inferring population parameters from a set of microbial genomes.
- Visualization of microbial genomes in a way that highlights relevant elements with respect to a phenotype of interest.
- Study of the constitution of a microbial flora.

Key dates:

- Submission deadline: June 20th 2022 (instructions here < <https://mlmg2022.github.io/call/> >)
- Decisions: July 13th 2022
- Online workshop: September 23rd

Meriem El Azami Laurent Jacob Flora Jay Pierre Mahij¹/₂

<https://mlmg2022.github.io/>
<flora.jay@lri.fr>

Flora Jay

Online TEs HumanBrainEvol Dec7

Dear EvoDir,

it's a pleasure for me to announce the second edition of the conference on Transposable Elements in human brain evolution and diseases, which will take place on December, 7th 2022 at 4 p.m. (CET). The event will go fully virtual via Zoom. Registration is free. For info see: <https://transposableelementsbrain.wordpress.com/>

Objectives: the conference is organised by Giorgia Modenini, PhD student, and prof. Alessio Boattini, PhD (BiGeA Dept., University of Bologna, Italy). Our goal is to promote the current knowledge on Transposable Elements evolution and their relationship with brain functions and diseases.

Abstract: this year we would like to open the conference to investigators in the field of Transposable Elements

and human brain evolution/diseases. Four abstracts will be selected for a 10 minutes talk + 5 minutes Q&A session. Abstract submission closes on November, 20th 2022. Selected talks will be announced one week later.

Speakers: along with selected abstracts, two invited speakers will be present at the conference: Molly Hammell, PhD and Johan Jakobsson, PhD. Info about their talks will be posted on the conference website.

Please spread the news in your networks! We are looking forward to meeting you at the Symposium.

All the best,

Giorgia Modenini

Giorgia Modenini, PhD Student

Molecular Anthropology Lab & Centre for Genome Biology

Dept. of Biological, Geological and Environmental Sciences

University of Bologna

Via Selmi, 3 - 40126 Bologna (Italy)

mail: giorgia.modenini2@unibo.it

Giorgia Modenini <giorgia.modenini2@unibo.it>

Oslo Online MicroMacroEvo Jun28-29

Dear colleagues,

This is a late announcement of a small symposium “Determinants of Rates of Origination, Extinction and Evolution”, on June 28 and 29 at the Norwegian Academy of Science and Letters in Oslo, or via livestream.

Aim of this meeting is to better understand the impact of environmental change on biodiversity, by integrating insights from geological time scales (macroevolution) with our current understanding of short-term, microevolution.

The program, and livestream link are here: <https://www.mn.uio.no/cees/english/research/news/events/-research/other/2022/determinants-of-rates.html> In case you plan to attend on-site in Oslo despite the short notice, please use the link above to register by 10am on June 24 so we can arrange lunch for the right number of people.

The symposium is supported by Tømtstiftelsen and

the Research Council of Norway.

If you have any questions, please email the organizers at ratesymposium@gmail.com

Folmer Bokma <folmer.bokma@ibv.uio.no>

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Prague ESEB Aug14-19 Register Jun15

ESEB Congress 2022 - EARLY BIRD REGISTRATION POSSIBLE UNTIL JUNE 15, 2022!

The next ESEB congress will take place from 14-19 August 2022 in Prague, Czech Republic.

Please register early by June 15 and make sure your ESEB membership is valid for the membership discount.

Note that abstract submissions for posters in the open symposium are also possible until June 15th!

Further details are available at <https://www.eseb2022.cz>
-- Dr. Ute Friedrich | Email: office@eseb.org European Society for Evolutionary Biology | www.eseb.org "office@eseb.org" <office@eseb.org>

Prague StudentPlantEvol Sep20-22 ExtendedRegistration

Dear colleagues and students,

The Student Conference of Plant Biology 2022 has extended its registration deadline to 17th of June!

Why joining?

- keynote speakers with different levels of experience: *Antonin Machac* (Postdoctoral Fellow at Copenhagen University, Denmark); *Claudia Köhler* (Department Director at Max Planck, Germany), an established and world famous researcher.

- an opportunity to present your work as a student for a— talk or a poster

- workshops on soft skills training

- Substantial time dedicated to networking and socialising

- Located in the beautiful city of Prague

- open to Bachelor, Master or PhD students!

- prize for the most eco-friendly participant!

- It is free!

More info:

<https://plantbioconference.wordpress.com/> Twitter @student_conf22

Deadline to register: 17th of June. Don't miss your chance!

*Organization & scientific committee: *Iris Sammarco, Susnata Salony, Amer Altas, Mohammad Javad Haghghatnia, Juan Manuel Gorospe, Lorena Meusel, María Pinilla Vargas

We are looking forward to meet you in Prague in September!

Best regards,

Student Conference of Plant Biology organising committee

Juan Manuel Gorospe <jmdegorospe@gmail.com>

Recording Available SexChromosomesAndSupergenes

Dear all,

The videos of the talks at the conference on the evolution of sex chromosomes and supergenes at the College de France are available online:

https://www.college-de-france.fr/site/tatiana-giraud/p109830952499656_content.htm

Talks by Doris Bachtrog, Laurent Keller, Tanja Slotte, Thomas Lenormand, Jessica Abbott, Tatiana Giraud, Stephen Wright, Claire Merot, Paul Jay, Daniel Jeffries, Emma Berdan, Tim Connallon, Deborah Charlesworth, Mathieu Joron, Aline Muyle, Simon Martin, Iulia Darolti, Yannick Wurm, Ricardo Rodriguez de la Vega, Gabriel Marais, Nicolas Perrin, Diego Cortez,

Organizing comitee: Tatiana Giraud, Paul Jay, Ricardo Rodriguez de la Vega
Funding: College de France, Fondation Jean-Francois et Marie-Laure de Clermont Tonnerre

Tatiana Giraud

Directrice de recherches CNRS Professeur au Collège de France Membre de l'académie des sciences Responsable

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Avoid i₂ REPLY ALL i₂: 1 e-mail 1 Mo sent to 10 persons = 190 g CO2 (1 km by car) , 33 emails per day (daily average number of emails sent per pers.) = 33 km (source ADEME)

English: <https://www.esu-psud.fr/en/team-members/tatiana-giraud/> Francais: <https://www.esu-psud.fr/personnel/tatiana-giraud/> @GenEcoEvo <http://www.esu-psud.fr/> Tatiana Giraud <tatiana.giraud@u-psud.fr>

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SGN Frankfurt Biodiversity Genomics Jun28

Dear biodiversity enthusiasts,

Following last year's successful Biodiversity Genomics Symposium in collaboration with PacBio, we are very happy to announce that the virtual event will be returning this summer. The LOEWE Center for Translational Biodiversity Genomics proudly invites you to the half-day Senckenberg Biodiversity Genomics Symposium on 28 June 2022, 13:00-17:00 CEST.

Highlights of the virtual symposium include: * Presentations from researchers using HiFi sequencing for biodiversity genomics research * An expert panel session to have your questions about HiFi sequencing answered * Live Q&A to interact with speakers

Register i₂today [<https://events.pacb.com/senckenberg-biodiversity-2022/>] and join the HiFi community i₂to i₂learn i₂how i₂you can use i₂highly accurate long-read i₂sequencing i₂to advance your research.

Please spread i₂the news in your networks! We are looking forward to meeting you at the Symposium.

All the best, Carola

–

Dr. Carola Greve (Lab and Project management) Zentrum fi₂r translationale Biodiversit₂i₂tsgenomik (LOEWE-TBG) Tel.: +49 69 7542 1844 Mail: Carola.Greve@senckenberg.de

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Direktorium: Prof. Dr. Klement Tockner, Prof. Dr. Andreas Mulch, Dr. Martin Mittelbach, Prof. Dr. Angelika Brandt, Prof. Dr. Karsten Wesche Pr₂sidentin: Dr. h.c. Beate Heraeus Aufsichtsbeh₂de: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

www.senckenberg.de Vernetzen Sie sich mit uns: www.senckenberg.de/socialmedia Carola Greve <carola.greve@senckenberg.de>

UatBuffalo GLAM-Evogen Aug13

Dear Colleagues,

We are delighted that the Great Lakes Annual Meeting of Evolutionary Genomics (GLAM-Evogen) is back in person.

GLAM-Evogen is an annual symposium that brings together faculty and trainees in the Great Lakes region from a range of backgrounds who work at the interface of genomics and evolutionary biology. The registration is free and it is designed primarily for the trainees to present. The meeting will be held in Buffalo and more information/registration link can be found here: <https://gokcumenlab.org/glam-evogen/> Please let Omer Gokcumen (gokcumen@gmail.com) know if you have any questions.

Looking forward to seeing you at Buffalo.

Omer Gokcumen <gokcumen@gmail.com>

UBasel Switzerland Herbaria Sep15-16 RegisterJun15

Now is the time to register and submit your contribution! Abstract deadline 15 June 2022

Bauhin symposium, Basel, Switzerland 15-16 September 2022. Call for contributions

An ever widening array of research disciplines require access to plant specimens preserved in herbaria, because they provide data calibrated in absolute time. In an era when land use and the global climate rapidly change, technological innovations, such as ancient DNA sequencing and digital specimens, are opening new avenues for timely research, leveraging the the specimens that were accumulated over more than four centuries of plant collecting. This year, 2022, marks the 400th anniversary of one of the first regional floras, published by Caspar Bauhin (1560-1624) based on his herbarium that survives to today.

To celebrate the deep history of plant collections, and to explore the cutting edge of herbarium-based research, we are organizing a two-day international symposium in Basel, Switzerland, in honor of Caspar Bauhin: “400 Years of Botanical Collections ’ Implications for Present-Day Research”.

Please submit your abstract for talks and posters on any topic in any discipline that leverages herbarium specimens. We particularly encourage contributions that make use of specimens in non-standard ways and that push the boundaries of what is currently possible.

The deadline for abstract submissions is 15 June 2022 Please consult the symposium website for all details. <https://bauhin2022.ch> Key note lectures: Richard B. Primack, Boston University, USA: “Mobilizing herbarium specimens, botanical gardens, historical data sets and citizen science observations to investigate the biological effects of climate change”; Herni $\frac{1}{2}$ n A. Burbano, Department of Genetics, Evolution and Environment, University College London, UK: “A retrospective view on plant genetic diversity using ancient DNA”

For the organizing committee: Dr. Jurriaan de Vos, Herbaria Basel, University of Basel Prof. Dr. Ji $\frac{1}{2}$ rg Stocklin, Basel Botanical Society chair Sylvia Martinez, Dept of Environmental Sciences, University of Basel

Jurriaan de Vos <jurriaan.devos@unibas.ch> Jurriaan de Vos <jurriaan.devos@unibas.ch>

UCincinnati Galapagos Oct24-28

[<https://mcusercontent.com/3b1b82856e608806b6d3bd25e/images/da31f387-476f-558e-712d-929b82da7e1e.jpg>] All Hands Meeting

October 24-28, 2022 University of Cincinnati Cincinnati, OH

Meeting Website < https://urldefense.com/v3/_https://uidaho.us18.list-manage.com/track/click?u=-3b1b82856e608806b6d3bd25e&id=09a31cc964&e=-9c12b881a0_...!!JYXjzlvb!gec1RuO_ouvXONEYdi4oP1KtLRhNdfy0Lkxv> Register < https://urldefense.com/v3/_https://uidaho.us18.list-manage.com/track/click?u=-3b1b82856e608806b6d3bd25e&id=dfb3de1eca&e=-9c12b881a0_...!!JYXjzlvb!gec1RuO_ouvXONEYdi4oP1KtLRhNdfy0Lkxv>

Dear Colleagues,

We invite you to join us at the first community meeting of the Island Systems Integration Consortium (ISIC)! We are a new NSF-sponsored Research Coordination Network (RCN) focusing on interdisciplinary science in the Galapagos. With this meeting, we will bring together geologists, biologists, and climate scientists to identify and pursue innovative, interdisciplinary questions for the next chapter of Galapagos research. We have planned our first “All-Hands” meeting to take place October 24-28 in Cincinnati, Ohio. ISIC aims to bring together a community of scientists working in the Galapagos from across the natural sciences to imagine and investigate research questions at the intersection of geology, biology, and climate science that transcend single disciplines. We seek to create a network that is self-sustaining and constantly improving our ability to answer these questions into the future. Our meeting page on the website < https://urldefense.com/v3/_https://uidaho.us18.list-manage.com/track/click?u=-3b1b82856e608806b6d3bd25e&id=3faef05418&e=-9c12b881a0_...!!JYXjzlvb!gec1RuO_ouvXONEYdi4oP1KtLRhNdfy0Lkxv> has all the information you will need, including a tentative schedule for the event, a link to registration, and (soon) a list of confirmed plenary speakers. Please note that our registration target date is August 28, 2022. Our grant budget can cover most costs of this event (travel, housing, breakfast and lunch, conference dinner) for participants, and we will distribute these funds as equitably as possible. Please read more about conference travel support here < https://urldefense.com/v3/_https://uidaho.us18.list-manage.com/track/click?u=-3b1b82856e608806b6d3bd25e&id=6b8af5975b&e=-9c12b881a0_...!!JYXjzlvb!gec1RuO_ouvXONEYdi4oP1KtLRhNdfy0Lkxv>. Finally, we would welcome any feedback on our website < https://urldefense.com/v3/_https://uidaho.us18.list-manage.com/track/click?u=-3b1b82856e608806b6d3bd25e&id=026efee4f6&e=-9c12b881a0_...!!JYXjzlvb!gec1RuO_ouvXONEYdi4oP1KtLRhNdfy0Lkxv> (still a work in progress) so please don't hesitate to send your comments our way. We are the ISIC RCN and we'd love to have you join us! If you are interested

in participating, please register on the meeting website!

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**UWaikato Online SMBE
GenomesAndInvasion Nov6-9
EoICall**

Kia ora koutou,

Manpreet Dhama and I are very excited to announce our upcoming hybrid SMBE Regional Meeting on The Role of the Genome in Biological Invasion! Along with an exciting line-up of internationally renowned plenary and keynote speakers, we aim to develop a broad scientific programme that will be of interest to researchers and biosecurity practitioners working at the intersection of invasion biology, genomics, and biosecurity. Relevant to this meeting, we have just launched the Invasomics Hub - a global network of researchers in the invasion genomics space to share insights and create opportunities for collaboration (see www.invasomics.com).

Meeting Dates: 6-9 November 2022 Time & time zone: Sun PM Icebreaker; Mon/Tues 9am-5pm, Wed 9am-3pm NZST Location: Hamilton, New Zealand & online.

We invite you to indicate your interest in attending this meeting at this link: <https://forms.office.com/r/5Q6Msz1Xuf> There will be a limit on the in-person capacity of the meeting, so please register your interest by 31 July 2022.

Further details of the meeting, including our exciting line-up of plenaries, can be found here: www.invasomics.com/conferences Please help us by circulating the EoI link among your networks.

Dr Ang McGaughran FHEA Senior Lecturer Te Aka Mātuaatua - School of Science University of Waikato | Private Bag 3105 Hamilton 3240 | New Zealand

www.ang-mcgaughran.com *Google Scholar* <
https://scholar.google.com/citations?view_op=3Dlist_works&hl=3Den&user=3DNiKUDjoAAAAJ
>

New papers: Evolutionary responses to warming <[https://www.cell.com/trends/ecology-evolution/pdf/S0169-5347\(21\)00067-7.pdf](https://www.cell.com/trends/ecology-evolution/pdf/S0169-5347(21)00067-7.pdf)> Insights into invasive

species from whole-genome resequencing < <https://onlinelibrary.wiley.com/doi/abs/10.1111/mec.15999> >

angela.mcgaughran@waikato.ac.nz

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**WoodsHole EvolutionaryEpigenetics
Oct11-14**

EPIMAR 2022 Conference Epigenetics Marine Biology (evolution focus)

Abstract submission is now OPEN for the 2nd edition of the EPIMAR Conference in Epigenetics in Marine and Aquatic Biology. This edition will take place October 11-14, 2022, at the Marine Biological Laboratory in Woods Hole, MS (USA). All information is available at <https://epimar.org/>. EPIMAR 2022 expands the scope of the first edition by broadly including all types of aquatic environments, and by incorporating hands-on workshops into the scientific Program. Each session will include an invited speaker, oral communications, and poster communications. In addition, a limited number of workshops will take place during the conference.

Topics for the 2022 edition include:

1. Environmental Epigenetics
2. Developmental and Comparative Epigenetics
3. Epigenetics in Aquatic Resources Management
4. Genetics and Evolution of Epigenetics

US Organizing Committee Dr. Hollie Putnam, Univ. Rhode Island RI Dr. Steven Roberts, Univ. Washington, WA Dr. Jose Eirin-Lopez, Florida International Univ., FL

Scientific Committee Dr. Enrico d'Aniello, Stazione Zoologica Anton Dohrn, Italy. Dr. Celine Cosseau, Université de Perpignan, France. Dr. Alexandre Fellous, Centre Recherche Insulaire Observatoire de l'Environnement, France. Dr. Mikhail Matz, University of Texas at Austin, USA. Dr. Francesc Piferrer, Institute of Marine Sciences-CSIC, Spain. Dr. Gabriele Procacini, Stazione Zoologica Anton Dohrn, Italy. Dr. Guillaume Rivière, Université de Caen Normandie, France. Dr Yaamini R. Venkataraman, Woods Hole Oceanographic Institution, USA. Dr. Jérémie Vidal-Dupiol, Université de Montpellier, France. Dr. Juliet M. Wong, Florida International University, USA.

cheers,

JEL

Jose M. Eirin-Lopez, Ph.D.

Associate Professor & HHMI Faculty Scholar

Environmental Epigenetics Group Leader

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Jose Maria Eirin-Lopez <jeirinlo@fiu.edu>

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ing@mcmaster.ca)

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AalborgU Denmark
FruitFlyEvolution**PHD STIPEND/INTEGRATED PHD STIPEND IN HEALTHSPAN IN FRUIT FLIES INVESTIGATED USING MULTI-OMICS APPROACHES (18-22041)**

At the Faculty of Engineering and Science, Department of Chemistry and Bioscience, a PhD stipend/Integrated PhD stipend is available within the PhD study programme of Biotechnology, Chemistry and Environmental Engineering. The stipend is open for appointment from 1 September 2022 or soon hereafter. The stipend is available for 3 or 4 years depending on whether the applicant already holds a master's degree. Applicants who hold a master's degree can apply for a 3-year position and applicants who has finished 4 years of full-time studies but do not hold a Master's degree can apply for a 4 years PhD stipend (Integrated PhD stipend). The Integrated PhD stipend is only open for appointment with starting date 1 September 2022. The Department consists of two sections with research and teaching in Biotechnology, Chemistry, Chemical Engineering, Environmental Technology and Biology. Place of employment of the position is Section for Chemical Science and Engineering in Aalborg. The Section of Bioscience and Engineering consists of 90 people of which about 30 is associate- and full professors. The section's conducts internationally competitive research within a range of topics within Biology and Biotechnology and publishes more than 100 peer reviewed publications annually. The section is responsible for the educations in Biology, Biotechnology, Medical Biotechnology and Environmental Science and is mostly located in Aalborg, but also conducts research and teaching at Esbjerg Campus.

JOB DESCRIPTION

The PhD student will be working on a project entitled "Integration of the *Drosophila melanogaster* Microbiome and Transcriptome for Enhanced Prediction of Late-Life Events" and will be positioned in the Bioscience and Engineering section. The project is financed by the Independent Research Fund Denmark and will be a collaborative effort between multiple researchers at Aalborg University, Denmark and Clemson University, South Carolina, USA.

The PhD student will be working on a panel of inbred and genome sequenced fruit fly lines (*Drosophila* Genomic Reference Panel) exposed to either a caloric-

balanced or caloric-enriched diet. At multiple age-points during the life of flies we will assess age-related decline in locomotor activity. Whole-genome RNA transcriptomic analysis and 16s rRNA quantification of the gut microbiome will be performed on young flies from the two environments. Using publicly available genotype information of all lines and the generated transcriptomic and microbiome data, we will develop models for prediction of longevity and healthspan within and across nutritional exposures.

We seek a candidate with a strong interest in experimental work and analyses on omics data and who has knowhow within one or more of the following areas: molecular biology, bioinformatics, physiology, evolutionary biology, or quantitative genetics and genomics. The project can to some extent be tailored to the candidate's interests and expertise.

The PhD student is expected to engage in teaching within genetics and evolutionary biology and will follow courses according to the university's PhD program. As part of the PhD study, it is expected that the candidate spends 4-6 month abroad, likely in laboratories of our collaborators at Clemson University.

Application:

The application must contain: (1) Cover letter of 1-2 pages describing the motivation for applying and an account of the applicant's background in relation to the announced position; (2) Project description, which is required for technical reasons - in this case, where you apply for a specific project, you may upload a copy of the project description above; (3) CV; (4) Diploma and transcripts of records; and (5) Other relevant information.

All interested candidates are encouraged to apply, regardless of their personal background. We value diversity and see it as a strength.

We are a dynamic workplace with high professionalism and efficiency, a good working environment and with a focus on work-life balance. We strive for a culture with collaboration that promotes openness and curiosity towards new initiatives and ideas and with a constructive approach to problem solving. As an employee at the department, you will be part of an international research environment, with a focus on innovation, knowledge sharing and excellency as well as interdisciplinary collaborations.

For further information about scientific aspects of the stipend, please contact Professor Professor Torsten Nygård Kristensen, e-mail: tnk@bio.aau.dk; telephone +45 61463375 or postdoc Palle Duun Rohde, e-mail: palledr@hst.aau.dk; telephone +45 23471197

The Department of Chemistry and Bioscience provides cutting-edge research and teaching in biotechnology, biology, environmental science, chemistry and chemical engineering. Our research solves important topics for the

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CologneU Two Evolutionary Genetics

A PhD position is available in the research group of Prof. Juliette de Meaux and Prof. Ute Hoecker at the University of Cologne. The PhD student will test and validate novel experimental strategies to determine how gene contribute to determine the ecological niche of a species. The PhD candidate will compare how mutations in >30 major plant pathways modify the ecological niche of the model species *A. thaliana* and use approaches based on the study of natural variation to validate niche predictions. The PhD candidate will acquire a broad array of skills ranging from genomics to molecular genetics and ecology, and develop a solid basis in— experimental design, data management and analysis.

The position is part of the TRR 341 PhD call. TRR341 is a new Collaborative Research Center funded by the German Research Foundation (DFG) at the Universities of Cologne, Düsseldorf, Bochum, Marburg and the Max Planck Institute for Plant Breeding Research. In a joint and interdisciplinary approach, combining Plant Molecular Biology and Ecology, we are investigating the genetic underpinnings of plant responses and adaptation to global environmental change. Together, our aim is to provide new molecular and genetic data and tools to better understand the molecular basis of plant adaptation. We thereby hope to support current and future efforts for the preservation of plant biodiversity.

The applicant must hold a Master degree in Biology, with expertise in plant genetics, quantitative biology and/or ecology. This position is open to applicants of all nationalities but the usual language in the lab is English.— Successful candidates should have a strong interest in generating knowledge on the ecological and

genetic adaptation of plants to changing environments and thus contributing to the preservation of plant ecosystems/ diversity. Successful candidates will convince us that they are excellent team players, driven by curiosity and with an aptitude for interdisciplinary research. (detailed project information on <https://ag-demeaux.botanik.uni-koeln.de/trr341>). PIs in TRR341 are dedicated to educate young scientific experts in Plant Ecological Genetics and to support them on their career path. Our integrated 'Graduate School in Ecological Genetics' (GEcoGen) offers you a comprehensive training program with targeted scientific education in the field of Plant Ecological Genetics as well as complementary training supporting your personal and career development. The positions are available as soon as possible and are to be filled for fixed term until 30.06.2026. According to the applicant's personal qualification and the institution, employment payment will be based on 65% of salary group 13 TV-L/13 TVöD-Bund. The employment regulations of the respective hiring institution apply. Please apply online at: <https://jobportal.uni-koeln.de> with proof of the sought qualifications (letter of motivation indicating for which project(s) you apply, CV, degree certificates, transcript of records and contact of two references). The reference number is Wiss2206-01. The project number is A12. The application deadline is 10.07.2022. If you have any questions, please contact (j.groenewold@verw.uni-koeln.de or jdemeaux@uni-koeln.de).

University of Cologne is an equal opportunity employers striving for gender equality and diversity. Applications from individuals with backgrounds that are underrepresented in MINT disciplines are expressly welcome. Women with comparable qualifications will be considered preferentially. Applications from suitably qualified severely disabled persons or people of equivalent status according to Book IX of the German Social Legal Code (SGB - Soziales Gesetzbuch) are encouraged. Severely disabled applicants of equal merit and qualifications will be given priority.

Prof. Dr. Juliette de Meaux University of Cologne
Plant Molecular Ecology Institute of Botany Biozentrum
Zülpicher str. 47b D-50674 Cologne Germany

Tel: +49 221 470 8213 jdemeaux@uni-koeln.de

<http://www.botanik.uni-koeln.de/1146.html> —

A PhD position is available in the research group of Prof. Juliette de Meaux at the University of Cologne. The PhD student will investigate the Genetics of *Arabis* Floodplain Species. The lab has recently discovered that several *Arabis* species interbreed in floodplain meadows along the Rhine. For this project, the PhD candidate will determine the phylogeography of one of the species,

Arabis sagittata, which was recently shown to be the receiver of interspecific gene flow. The PhD candidate will explore the functional and ecological impact of gene flow. The PhD candidate will acquire a

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ETH Zurich EvolutionTriploidy

Position for a Ph. D. student at ETH Zurich / Eawag to study the ecological and evolutionary advantages of triploidy and apomixis. The study system is the New Zealand freshwater snail *Potamopyrgus antipodarum* where diploid sexual and triploid asexual lineages commonly coexist, compete and share virulent coevolving parasites. The broader goal of the project is to understand how host triploidy associates with parasite resistance and what is the evolutionary history of triploid lineages. Depending on the interests of the candidate the project may include field work in New Zealand, an opportunity to conduct laboratory and field experiments and development of molecular genetics tools to answer the study questions and test hypotheses.

The work language in the group is English.

General information about the research group can be found at <http://www.ae.ethz.ch/>. Candidates must qualify for admission to the Ph.D. programme of ETH (<https://www.ethz.ch/en/doctorate.html>). The duration of the position is four years, starting from November 2022. The salary is according to the ETH-scale, starting from 47 kCHF/year.

Candidates are invited to apply by email. Please attach a single PDF file including a letter of motivation, a C.V. and the names and addresses of two references. The subject line should read “PHD-Position 2022”. Applications can be sent to jukka.jokela@env.ethz.ch.

The evaluation of applications will start in July 2022 and continues until the position is filled.

Jokela Jukka William Juhani <jokela@env.ethz.ch>

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iDiv Leipzig SymbiontEvolution

The Martin Luther University Halle-Wittenberg, in cooperation with the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, offers the following position in Leipzig, starting on 1 October 2022 or at the earliest opportunity and initially limited to 31 Mai 2025 (pending approval of further funding).

Doctoral Researcher (m/f/d) as part-time employment (65%) The salary will be up to 65% 13 TV-L, if the personal requirements and tasks are fulfilled. In Germany, this corresponds to a regular PhD salary.

Project: “Symbiont adaptation in response to host shifts”

A majority of arthropod species harbour specialised bacterial symbionts that may influence many aspects of arthropod biology, and are transmitted from mothers to offspring (hence termed “inherited symbionts”). Occasionally, inherited symbionts are transmitted between unrelated individuals. Such host shifts are key to symbiont spread and evolutionary success, yet this process is poorly understood. The goal of the project is to determine how symbionts evolve in adaptation to novel hosts, and to ascertain the factors involved in successful spread of inherited symbionts in novel hosts. The project will employ the *Spiroplasma* / *Drosophila* model, use artificial host shifts to create novel host symbiont combinations, and investigate genomic evolution of symbionts. Symbiont spread in host populations will further be investigated using experimental evolution. The work will thus comprise handling and manipulation of *Drosophila* populations, as well as microbial genomics and bioinformatics. The candidate will work in an international research environment and will benefit from excellent laboratory infrastructure.

The German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig is a National Research Centre funded by the German Research Foundation (DFG). Its central mission is to promote theory-driven synthesis and data-driven theory in integrative biodiversity research. It is located in the city of Leipzig and it is a central institution of the Leipzig University, jointly hosted by the Martin Luther University Halle-Wittenberg (MLU), the Friedrich Schiller University Jena and the Helmholtz Centre for Environmental Research (UFZ). More information about iDiv: www.idiv.de. The newly established Symbiont Evolu-

tion group of Dr. Michael Gerth aims to better understand how inherited symbionts have become so abundant and diverse, with a particular focus on symbiont host shifts. For more information, please visit our lab website: <https://www.idiv.de/en/symbiont-evolution.html>. Doctoral researchers at iDiv benefit from inter- and transdisciplinary training and support by the iDiv graduate school yDiv.

Tasks: * Planning and conducting of scientific experiments, cultivation and care of animal cultures (*Drosophila*) * Molecular biology work: DNA extractions, PCRs, creation of next generation sequencing libraries, performance of Oxford Nanopore MinION sequencing * Bioinformatics work: assembly and annotation of bacterial genomes; determination of genetic variants * Interpretation and presentation of the work at national and international conferences, as well as in the form of publications in international journals

Requirements: * Scientific University degree (Diploma/M.Sc.) in biology or a related field * Demonstrated knowledge of and interest in evolutionary biology * Experience in handling of *Drosophila* or similar model organisms desirable * Experience in molecular techniques (PCRs, DNA extractions), genome sequencing, or bioinformatics desirable * Strong interest in symbiont ecology and evolution * Willingness to integrate and contribute to an international research centre * Fluency in English and good communication skills * Knowledge of German is advantageous, but not required

The Martin Luther University Halle-Wittenberg gives priority to applications from severely disabled candidates with equivalent qualifications. Women are particularly encouraged to apply. Applicants with a degree that was not obtained at a German higher education institution must submit a Statement of Comparability for Foreign Higher Education Qualifications from the Central Office for Foreign Education (Zentralstelle für ausländisches Bildungswesen) to prove equivalence.

For informal queries about the research project please contact Dr. Michael Gerth (michael.gerth@idiv.de). Please submit your full application dossier only in English with registration number 4-6786/22-D until 21 July 2022. Applications should be submitted electronically via our iDiv application portal at <https://apply.idiv.de>. Applications should include motivation letter tailored to the research project, curriculum vitae, a digital copy of

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INRAE Nancy France EvolutionReproductiveMode

We are looking for a motivated and enthusiastic candidate for a fully funded Ph.D. position to work on the evolution of reproductive mode polymorphism in the poplar rust fungus, *Melampsora larici-populina*.

Advisors Pascal FREY (Senior scientist), main supervisor Fabien HALKETT (Senior scientist), co-supervisor Sébastien DUPLESSIS (Senior scientist), co-supervisor

Host laboratory Department of Tree - Microbe Interactions INRA / University of Lorraine INRA Grand-Est - Nancy research centre 54280 Champenoux <http://mycor.nancy.inra.fr/IAM/> Funding University doctoral contract. Duration 3 years. Monthly net salary about euro 1600.

Thesis summary The variability of reproductive modes is a long-standing conundrum in evolutionary biology. Yet, it conditions the evolutionary trajectories of populations and the morphological or physiological characteristics of the individuals that compose them. The phytopathogenic fungus *Melampsora larici-populina*, causing poplar rust, is particularly interesting for the study of the polymorphism of reproduction modes. Indeed, like most Pucciniales, this species presents a life cycle that alternates between an asexual multiplication phase and a sexual reproduction phase. Besides, we have demonstrated that lineages of the fungus do survive strictly asexually over decades.

The thesis proposes to address the issue of variability in reproductive modes along three complementary axes:

1. An evolutionary ecology approach that will allow us to determine the geographical distribution of the asexual lineages of *M. larici-populina* using population genetics.
- 2- A phenotypic approach that will aim to experimentally demonstrate the level of investment of asexual lineages in sexual reproduction.
- 3- A genomic and evolutionary transcriptomic approach that will aim to elucidate the functional basis of the cycle and to find the determinants of the variation of the sexual and asexual reproduction modes.

Required skills The candidate should have a Master degree in ecology, evolutionary biology and/or population biology. He/she should have skills in population genetics

and/or genomics and an interest in plant-microorganism interactions. A strong taste for teamwork is essential. Knowledge of French will be an asset but is not mandatory.

Application Send CV, cover letter and contact details of two referees to Pascal Frey (pascal.frey@inra.fr) and Fabien Halkett (fabien.halkett@inrae.fr) before June 28, 2022.

Fabien Halkett <fabien.halkett@inrae.fr>

JagiellonianU ZebraFinchEvolution

4-year PhD scholarship in Physiological Ecology Institute of Environmental Sciences, Jagiellonian University, Cracow, Poland We are seeking a highly motivated PhD student with interest in animal experimental biology and a general interest in avian physiology for our NCN funded project “The effect of aging on body temperature dependent oxidative stress: the burden of heterothermy”. The experimental work on captive zebra finches (*Taeniopygia guttata*) will be performed at Jagiellonian University.

Duration: 4 years Starting Date: October 2022 Scholarship: regular PhD Stipend and additional 5000 PLN / month from the project as scientific stipend Requirements:

1. MSc in life science (biology, ecology, evolution, zoology or related)
2. interest physiological ecology and animal metabolism
3. experience, or at least interest in experimental work with birds
4. analytical thinking, creativity, and high motivation in learning new methods
5. excitement to perform research in an international team
6. good level of spoken and written English

Project in brief:

As endotherms, mammals and birds have evolved the capacity to thermoregulate, an evolutionary achievement with profound impact on biology and ecology. Endothermy, however, does not necessarily entail a constant body temperature throughout a day, a year or a life time. Instead, many mammals are known to hibernate seasonally or enter torpor, reducing their body temperature by a few $\hat{A}^{\circ}\text{C}$ to several tens of $\hat{A}^{\circ}\text{C}$ be-

low the normothermic level. Birds are known to also become torpid or and reduce body temperature during the night by rather a few $\hat{A}^{\circ}\text{C}$ with some exceptions of up to two tens of $\hat{A}^{\circ}\text{C}$. These on first sight small temperature drops may, however, have profound effects on enzymatic activity. The rate of biochemical reactions in general, and enzymatic reactions in particular are highly temperature dependent, which also applies to enzymes that act as antioxidants against free radicals. They protect against the negative effects of oxidative stress through free radical scavenging and if this protective enzymatic action is reduced in its rate, free radicals may remain unchecked and lead to oxidative damage of biomolecules. Such oxidative damage risks functional integrity of biomolecules and is currently one of the most frequently forwarded driver of aging. Our research is designed to understand how regulation of body temperature may be hampered by increasing age and how this impaired thermoregulatory capability may lead to increased oxidative stress when animals grow old.

While it is well established for mammals, including us humans, that body temperature and the capacity to thermoregulate declines with increasing age, such data are virtually absent for birds, and in addition were never linked to oxidative stress. Our research project will provide thorough understanding how age in the context of senescence influences thermoregulation in birds. The second goal of our research is then to relate the thermogenic capacity of birds of different age to oxidative stress to test the hypothesis that body temperature is related to the rate of oxidative damage.

Please submit for application in a single pdf by 20th of June 2022 via e-mail (ulf.bauchinger@uj.edu.pl) containing:

1. Letter of motivation
2. CV
3. certificates
4. Contact details for two scientists who can provide reference letters

Students must be accepted as PhD student at Institute of Environmental Sciences, UJ (please see details for application process at https://irk.uj.edu.pl/en-gb/offer/-SD_PC.22/programme/n.scis.przy.phd.biol.sd_PC/-?from=org-unit:UJ.SDSP). Shortly, the registration for the Doctoral School ends at 27th June 2022. Entry exam will be between 04th and 8th July 2022. Entries to the Doctoral School: 22nd - 25th August 2022. One needs to have Msc degree before entry to the Doctoral School.

For further information do not hesitate and contact Ulf

Bauchinger (ulf.bauchinger@uj.edu.pl)

Ulf Bauchinger <ulf.bauchinger@uri.edu>

(to subscribe/unsubscribe the EvolDir send mail to gold-
ing@mcmaster.ca)

JamesCookU EvolutionGroupLiving

The van de Pol Lab at James Cook University (Townsville, Australia) invites applications for a PhD position in evolutionary demography / behavioural ecology. The successful candidate will work on projects investigating the evolution of group living and cooperation. Specific projects are flexible based on discussion with the candidate, but we specialize in combining evolutionary/demographic modelling of fitness consequences with the analysis of long-term individual-based field data on cooperatively breeding birds.

An example of previous work on this topic on which this project could build: <https://www.journals.uchicago.edu/doi/abs/10.1086/706475>. For more details about our research and recent publications, see <https://research.jcu.edu.au/portfolio/-martijn.vandepol/>. We are looking for a student with a background in ecology, behavioural biology and/or evolution. Strong quantitative (mathematical and statistical) skills are desirable, but most important the candidate should have a keen interest in modelling and analysing existing long-term dataset to study questions about evolutionary demography of group living / cooperation. Good communication skills, scientific curiosity and enthusiasm for research are essential.

JCU's college of Science & Engineering is a large and research-intensive unit, and globally ranked as one of the best research places in Ecology & Evolution. Tropical Townsville offers year-round warm weather, plenty of outdoor activities and native wildlife, and is close to the Wet Tropics and Great Barrier Reef.

Acceptance for this PhD is contingent on successful application for a PhD scholarship. PhD scholarships for domestic and international students are available. Competition for international scholarship is particularly strong, and candidates should have received very high grades during their degree (MSc/ first class Honours or equivalent) and have at least one 1st-authored publication in a peer-reviewed journal (or multiple co-authored ones). Deadline of the international application is 23rd of September 2022, but earlier

is better as this leaves more time to prepare the application. For more information on the procedure see <https://www.jcu.edu.au/graduate-research-school/-hdr-candidates/postgraduate-research-scholarships> and for criteria see <https://www.jcu.edu.au/graduate-research-school/forms-and-policies/scholarship-scoring-procedure>. Interested applicants should send a brief outline of their research interests and a CV (with grades and publication record) to martijn.vandepol@jcu.edu.au. Informal inquiries also welcome.

Martijn van de Pol

martijn.vandepol@jcu.edu.au

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ing@mcmaster.ca)

JamesCookU FairyWrenEvolution

Expression of interest: PhD scholarship behavioural adaptation to climate change in fairy-wrens

I'm looking for outstanding candidates who wish to apply for a competitive PhD scholarship at James Cook University (Townsville, Australia) to study topics related to behavioural adaptation to climate change using fairy-wrens as a study system. The project involves a combination of fieldwork in south-west Australia with analyses of long-term datasets.

Summary: It has been suggested that social species have evolved in harsh environmental conditions, allowing for successful reproduction and survival in environments where pairs alone cannot succeed. This implies that social behaviour may buffer against adverse weather conditions. However, an overlooked issue is that social behaviour itself will also be affected by adverse weather. This project will study the dynamic interplay between ecological conditions and social behaviour through new experiments and detailed behavioural observations using an iconic Australian bird as a model system.

You need to be eligible to apply for an (International) Research Training Program Scholarship (<https://www.jcu.edu.au/graduate-research-school/-hdr-candidates/postgraduate-research-scholarships>). Requirements typically include at least one first-authored peer reviewed publication and a MSc/ first class Honours, or equivalent (<https://www.jcu.edu.au/graduate-research-school/forms-and-policies/scholarship-scoring-procedure>)

Please send me a letter with your interests, including a current CV to Dr Lyanne Brouwer: Lyanne.Brouwer@jcu.edu.au

See my website for more information about my research: <https://myscience.eu/lyanne/> Lyanne Brouwer Lecturer

College of Science & Engineering James Cook University, Australia

JCU Researcher Profile | Personal Website | Google Scholar

T 07 4781 5389 | T (INT'L) +61 7 4781 5389

E Lyanne.brouwer@jcu.edu.au

JCU Townsville | Bebegu Yumba campus | Douglas | Building 142 | Room 208

1 James Cook Drive Townsville QLD 4811 AUSTRALIA
jcu.edu.au

We acknowledge the Australian Aboriginal and Torres Strait Islander peoples as the traditional owners of the lands and waters where we live and work.

Your feedback is appreciated and can be submitted to: feedback@jcu.edu.au

Lyanne.brouwer@jcu.edu.au

Krakow Poland SaproxylicBeetleGenetics

Institute: Institute of Systematics and Evolution of Animals Polish Academy of Sciences Title: Population genetics of saproxylic beetle assemblages in protected and managed forests Name of potential supervisor dr hab. ukasz Kajtoch (ORCID 0000-0001-7345-9400). Background information: The recruitment concerns Polish National Science Center project - summary of the project idea:

<https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2021-09-15okipi34a/streszczenia/538567-pl.pdf> Maintaining biodiversity is one of the most important problems of our time and forests are particularly affected by human activities because they are used for timber production. At the same time, wood is a microhabitat that is home for numerous organisms called saproxylics. The availability, quality and quantity of deadwood in many forests are severely limited what forces many species to live only in some remnants of

natural forests. Other saproxylic organisms benefit from forest management and some of them might even be detrimental to forestry, especially during outbreaks. For proper protection of rare and threatened taxa, and for effective management of eruptive species (called 'pests'), it is necessary to understand what determines the viability and structure of their populations. Thanks to the development of modern DNA sequencing and genotyping techniques, it is now possible to study genetic polymorphism in detail to understand the factors and microevolutionary processes that shape population structure. The addition of environmental features to genetic data (via landscape genetics) makes it possible to find answers to the question of which features of the environment (e.g., availability and connectivity of old-growth forests, quantity and quality of deadwood, etc.) determine the genetic polymorphism of saproxylic beetle populations. The main question to be addressed in the project: In this project saproxylic beetle species will be examined, both relicts of primeval forests and common taxa (including those with eruptive populations), with different species-specific traits (such as phylogenetic and trophic relationships, habitat and food specialization) to find answers to the following questions:

- 1) how genetic polymorphism of saproxylic beetles varies in forests with different habitat quality and microhabitat quantity?
- 2) how the duration of protection preserves the high genetic variability of saproxylic beetle's populations?
- 3) how the spatial distribution of suitable patches determines the dynamics of meta-populations of saproxylic beetles?
- 4) how distance to refuges in old-growth forests reduces genetic polymorphism of saproxylic beetles?
- 5) how population genetics of saproxylic beetles are influenced by traits such as specialization, abundance, and phylogeny?

Information on the methods/description of work: Selected saproxylic beetle species will be sampled from multiple sites in old-growth, protected and managed forests. Sampling will focus on Polish forests, as there are still primeval forests in this country known to be hot-spots for relict for deadwood beetle species. The sampled beetles will be genotyped using next-generation sequencing technology and modern bioinformatics, which will allow the description of molecular polymorphism. Next, we will combine the genetic data with information on the environmental conditions of the sampled sites and species-specific traits. The PhD student will be involved mostly in laboratory (nucleid acids isolation, DNA barcoding, genomic library preparation, sequencing), bioinformatics and statistics. Sample collection and habitat measurements in the field will be done in cooperation with specialists.

Additional information (e.g., special requirements from the student): Requirements: - an M.Sc. degree in biology, biotechnology or related fields; - strong interest in use of molecular data in ecological and evolutionary studies (experience in next generation sequencing, SNP genotyping and bioinformatic analyses are welcome); - good English language; - at least basic familiarity with R environment; - no contraindications for fieldwork. - documented active participation in various forms of disseminating scientific research results and co-authoring scientific or popular science publications. - a category B driving license is welcome.

Recruitment is combined with recruitment to the Doctoral School of Natural and Agricultural Sciences. Candidates must meet the requirements provided for in the rules of enrollment to the Doctoral School of Natural and Agricultural Sciences. These rules and recruitment documents (including the personal questionnaire) can be found at:

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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>

LMU Munich Computational Phylogenetics

PhD Position in Computational Phylogenetics

I invite applications for one doctoral position in computational-phylogenetics in my research group at the GeoBio-Center of the Ludwig-Maximilians-Universität (LMU), München. The position is part of my ERC Starting Grant “MacDrive”. This is a research-only PhD position funded for 3 years (no classes and teaching required but possible). The starting date is flexible between 1st September 2022 and 1st September 2023. This position focuses on computational research but I strongly encourage applicants with a biological background too.

The Project MacDrive aims to test which factors drive diversification rates, e.g., species-specific factors such as body size, habitat and diet, versus external factors such as the environment. To answer this question, we will estimate several species-level phylogenies with extant species and fossil species. Additionally, we will

develop new statistical methods to estimate these time-calibrated phylogenies with fossil taxa based on both molecular and morphological data, as well as new statistical methods for diversification rate estimation. The methods will be integrated into our software RevBayes (<https://github.com/revbayes/revbayes>).

In this part of the project MacDrive, you will be responsible for developing and testing new approaches to estimate phylogenies for extant and fossil species from morphological data. Methods for estimating phylogenies from molecular data are currently much more mature and tested than methods for morphological data. Specifically, in this project we need to develop better models and methods for correlated morphological character and morphological clock models. Your work is focused on computational phylogenetics with an emphasis on testing and modifying existing models in RevBayes. Your methods will be used to estimate several time-calibrated phylogenies for which we are generating the data in my group. These phylogenies will ultimately be used to perform macroevolutionary analyses to test for drivers of diversification rates.

Applicants should have a Master’s degree, completed or completion imminent, in evolutionary biology, bioinformatics, computational biology or a related field. The key skills required are basic programming skills (for example R or C++), basic experience in performing statistical analysis and good communication skills (oral and written English). Basic knowledge in phylogenetics is beneficial but not required. Training in these skills will be provided depending on need. No knowledge of German is required but some basic knowledge will be helpful outside of work. Enthusiasm, determination and the capacity to work independently are essential. The candidate is highly encouraged to develop their own research ideas complementing the current research direction.

My group is broadly working on theory and computational methods for Bayesian inference of phylogeny (<https://hoehnalab.github.io>). Our research directions include phylogeny inference, divergence time estimation, diversification rate estimation and model testing. All of our methods are implemented in the open-source program RevBayes (<http://www.RevBayes.com>) which is the successor software of the popular program MrBayes. The successful applicant will be part of our vibrant RevBayes group. There will be opportunities for the successful applicant to work with and visit the research groups of my collaborators in Europe and the USA. Furthermore, I expect the candidate to become actively involved in our RevBayes workshops as a lecture or teaching assistant.

My group is located at the GeoBio-Center of the LMU Munich, one of Germany's and Europe's top Universities (#32 world-wide; #8 in Europe; #1 in Germany; <https://www.timeshighereducation.com/world-university-rankings/lmu-munich>). The GeoBio-Center is located at the Königsplatz which is in walking distance to the historic city center (Marienplatz) and English Garden (city park with 3.75 km² area). The GeoBio-Center is highly interdisciplinary and consists of researchers from different departments including paleontology, molecular and evolutionary biology, zoology and botany.

The position will be compensated according to the standard LMU salary scheme for doctoral students (approx. 3050 euro monthly gross salary; approx. 1850 euro monthly net salary). The salary includes benefits such as health care, 30 days of vacation per year, pension, unemployment insurance, child support (if applicable) and parental leave.

LMU Munich is an equal opportunity employer. The University continues to be very successful in increasing the number of female faculty members and strongly encourages applications from female candidates. LMU Munich intends

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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>

MemorialU CaribbeanBiogeography

I am seeking a motivated PhD student to test the role of different hypotheses (e.g. Cenozoic vicariance, over-water dispersal, the GAARlandia colonization route, in situ speciation) on the evolution and assembly of Caribbean flora. The Caribbean is important to conserve because it is one of the world's top five biodiversity hotspots. We will compile divergence times and ancestral areas of Caribbean endemic plant lineages from the literature or from our own analyses (dated phylogenetic trees and biogeographic modeling). With these data we will estimate colonization and speciation rates through time. We hypothesize that different speciation rates through time could explain the absence of a time-for-speciation effect in the Caribbean as we previously demonstrated, and a decreased colonization rate into

the Caribbean because islands will reach carrying capacity with time. In addition, the systematics of the genus *Copernicia* (Arecaceae), a radiation of 21 palm species mostly endemic to Cuba, will be conducted using Genotyping-by-Sequencing (GBS). The student will conduct fieldwork in Cuba. We expect to find phylogenetic splits reflecting the history of fragmentation and rejoining of Cuban paleo-archipelagos, and between Cuba and Hispaniola. Other research questions of interest to the student are welcome. The PhD student will work under the mentorship of Dr. Julissa Roncal at Memorial University of Newfoundland in Canada, and will collaborate with Raul Verdecia from Las Tunas University in Cuba for the systematics of *Copernicia*.

Student's qualifications: - A MS degree in a related discipline (e.g. biology, botany, systematics, ecology, molecular biology, bioinformatics) - Experience in organismic botany, phylogenetics and/or population genetics analyses, biogeographic modeling, and bioinformatics is highly desirable. - Excellent writing, analytical, organization and communication skills. Attention to detail. - Written and oral proficiency in English is mandatory for international students. TOEFL or IELTS test is required for admission to the university.

Position characteristics: Project start date is September 2022 or January 2023. The PhD program comprises four years with an annual stipend of CAD\$ 22,500 and the possibility to obtain the Dean's Doctoral Award of CAD\$5,000 per year. The student is expected to teach 60 hours during the fall and winter semesters (Sept through April) but not in the spring. The department of Biology at Memorial University has 25 faculty members and 74 graduate students. Memorial University is Atlantic Canada's largest university offering a multicultural environment. Screening will begin immediately and will continue until the position is filled. Position is funded by an NSERC Discovery Grant, but as part of the student's training I encourage every student to apply for grants and awards.

How to apply: Interested applicants should send their CV, a one-page statement of research interests and career goals, transcripts, and contact information of 3 references (who have agreed to be contacted) in a single pdf or word file to Dr. Julissa Roncal at Email: jroncal@mun.ca before applying formally to MUN. For more information on the research group visit: <https://julissaroncal.wordpress.com>. For instructions on how to apply to Memorial's graduate program visit: <http://www.mun.ca/become/graduate/apply-index.php> Information on the Biology department can be found: <https://www.mun.ca/biology/our-people-faculty/> Julissa Roncal, Ph.D. (she/her) Associate Professor and Curator of the Ayre Herbarium Depart-

ment of Biology Memorial University of Newfoundland
45 Arctic Avenue St. John's, NL, A1C 5S7, Canada
Office CSF4331, phone (709) 864 2241 Ayre herbarium
(709) 864 6233 Mobile: (709) 351 6771 <http://julissaroncal.wordpress.com/> Twitter @roncaljulissa

Associate Editor of Botany <https://cdsciencepub.com/journal/cjb> We acknowledge that the lands on which Memorial University's campuses are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.

Julissa Roncal <jroncal@mun.ca>

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MLU Halle Germany BeePopGenomic

At the Martin Luther University Halle-Wittenberg (Germany), Natural Sciences Faculty I, Institute of Biology, the General Zoology group offers a 3 years position (65%) starting on the 01.09.2022 for a

Doctoral Researcher (m-f-d)

on the project "A comparative population genomic approach to address the effects of habitat loss and fragmentation on South American *Centris* oil-bees";

The salary is according to national norms, i.e. 65% of 13 TV-L.

The project: Landscape fragmentation and habitat loss are among the major threats to global bee diversity. However, it is still not well understood if certain functional traits render some bee species more vulnerable to environmental change than others. We seek a highly motivated PhD student to investigate whether South American oil bees of the genus *Centris* that vary in functional traits also differ in their population genomic response to fragmentation and habitat loss. Moreover, the PhD student will study the effects of such habitat disturbances on *Centris* bee-oil plant-interactions as well as on the ecosystem service of pollination. This will allow to link habitat disturbance, population genomics, ecologically relevant traits, species interactions and ecosystem services (pollination). The research work includes large scale sampling of bees in Brazil (3-4 months), whole

genome sequencing to generate single nucleotide polymorphism (SNP) data, landscape genomics, building plant-pollinator networks and conducting pollination experiments. The selected PhD candidate will work in an ambitious international research team with modern lab facilities.

Requirements:

MSc/Diploma in Biology or related subject Knowledge on population genetics/genomics and SNP data Field work experience (especially in collecting insects) Knowledge on wild bee biology, using GIS, R and Linux is an advantage but not mandatory Experience in speaking and writing in English Knowledge of German and Portuguese is an advantage but not mandatory Driving license (class B) Willingness to work under potentially uncomfortable field conditions Team-oriented and strong organizational skills

The Martin Luther University Halle-Wittenberg gives priority to applications from severely disabled candidates with equivalent qualifications. Women are particularly encouraged to apply.

All applications should include the following:

Cover letter in English describing your motivation, research interests and relevant experience Curriculum vitae including names and contact details of two scientific references Digital copy of MSc/Diploma certificates and transcript of records

Kindly send your application in electronic form as a single PDF file, quoting the reference number 5-5672/22-D to Dr. B. Kahnt (E-Mail: belinda.kahnt@zoologie.uni-halle.de). Submission deadline is 27/06/2022. For queries concerning the application process and for project-related questions also contact Dr. B. Kahnt per mail or phone (0049 345 55-26502). The position is offered with reservation of possible budgetary restrictions. Selected candidates will be invited to an online interview.

Belinda Kahnt <belinda-k@gmx.de>

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MPI Cologne PlantAdaptation

PhD position in population genetics and genomics of adaptation in plants.

Position open for a Ph. D. student at the Max Planck Institute for Plant Breeding Research in Cologne to study the population genetics and genomics of plant adaptation to harsh environments. The study system is the perennial plant *Arabis alpina*, which grows across Europe including at high-latitude sites in Scandinavia. These environments are harsh, with extreme temperatures and short growing seasons followed by continuous snow cover. The student will use population genetics methods and genomic data to model the postglacial colonization history of Scandinavia by *A. alpina* and identify genomic regions and phenotypes associated with adaptation to high latitudes.

Experience in population genetics, genomics and/or in plant sciences, including plant growth, phenotyping, greenhouse or growth-chamber experiments, and GWAS is beneficial. An aptitude towards bioinformatics, statistics, quantitative biology will be preferred. Curiosity and an interest in learning new topics is essential.

Instructions for the application process can be found here: <https://jobportal.uni-koeln.de/ausschreibung/-renderFile/849?propertyName=flyer> Any question can be sent by email to fulgione@mpipz.mpg.de. The work language is English. Screening of applications will start immediately and the deadline is the 10th of July 2022. The project is part of a new consortium that links Ecology to Plant Genetics: <https://ag-demeaux.botanik.uni-koeln.de/trr341> Expertise from more than 20 labs is combined into a multidisciplinary environment where you will receive highly competitive training in a vibrant research community.

Contact: Andrea Fulgione, Ph.D Group Leader Max Planck Institute for Plant Breeding Research Carl-von-Linné- $\frac{1}{2}$ -Weg 10 50829 Köln $\frac{1}{2}$ ln email: fulgione@mpipz.mpg.de

Andrea Fulgione <fulgione@mpipz.mpg.de>

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Norway SalmonEvolution

Dear All,

Hi, I am looking for a three-year PhD student (fully paid) who has a strong interest in evolution, genomics and bioinformatics, at the Norwegian University of Life Sciences.

Project: The main goal of this project is to reveal the adaptive evolution and functional effect of structural variants in Atlantic salmon. The main tasks are bioinformatic analyses of publicly available genomics and transcriptomics dataset in the view of evolution.

Specific tasks:

- * Estimate the effect of genomic structural variants on smoltification, the physiological “metamorphose” from fresh water to seawater in Atlantic salmon.
- * Compare population-scale genomes of geographically broadly distributed wild Atlantic salmon and farmed Atlantic salmon and identify adaptive genomic evolution.
- * Extend the evolutionary analysis at the cross-species scale and reveal the deeper evolutionary history of target genes.

For more into and application, please see the page below. <https://www.jobbnorge.no/en/available-jobs/job/-228438/phd-scholarship-on-evolutionary-genomics> Best, Marie Marie SAITOU, Ph.D. Tenure-Track Principal Investigator, Centre of Integrative Genetics (CIGENE), Faculty of Biosciences, Norwegian University of Life Sciences <https://sites.google.com/view/saitou-lab> Marie Saito <marie.saitou@nmbu.no>

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UAM Poznan ButterflyEvolutionAndGenomics

We are looking to recruit two PhD students on a research project funded by the Polish Science Foundation (NCN).

One PhD student would focus on fieldwork and laboratory experiments. You would carry out fieldwork and

experiments in India, Kenya, and South Africa, and gather data from collaborators and museums, perform data management, data analysis, and MS writing, and participate in conferences. We are looking for candidates with an MSc in Biology, and demonstrated interest in evolutionary ecology and field studies, preferably related to entomology. Strong interpersonal skills, and a good level of English are also important.

The other PhD student would focus on genomic analyses. You would carry out an experiment (in India), gather butterfly genome samples from collaborators, perform DNA extraction, data management, data analysis (major task!), and MS writing, and participate in conferences. You will receive training from the Centre for Genomic Research in Liverpool and co-advisor Vicencio Oostra (Queen Mary University, London). We are looking for candidates with an MSc in Biology, with a demonstrated interest in evolutionary ecology and molecular genetics, preferably with programming experience (e.g. R, Python). Strong interpersonal skills, and a good level of English are also important.

The Adam Mickiewicz University is among the best institutes in evolutionary biology and ecology in Poland and you would be part of an international team of experts with complementary skills. The doctoral school includes coursework and requires some hours of teaching practice. The stipend of 5000 PLZ per month (Brutto) is comfortable in Poland, and Poznan is a pleasant city.

If interested, please send your CV with a cover letter, a (draft) publication or report, and the names and e-mail addresses of two references to fremol@amu.edu.pl.

Sincerely,

Freerk Molleman <https://www.researchgate.net/profile/Freerk-Molleman> Ullasa Kodandaramaiah <http://www.vanasiri.in/> Vicencio Oostra <https://www.vicencio.eu/> Urszula Walczak <https://www.researchgate.net/profile/Urszula-Walczak> Freerk Molleman <fremol@amu.edu.pl>

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UAM-Poznan ButterflyPhylogeography

We are looking a PhD student on the research project “Success of a widespread butterfly: Local adaptation or phenotypic plasticity?” funded by the National Science Centre (NCN, Poland). The aim of the project is to determine how the widespread butterfly *Melanitis leda* (L.) (Nymphalidae: Satyrinae) has colonized its range and adapted to varying climates and habitats.

You would gather butterfly genome samples from collaborators, perform DNA extraction, data management, data analysis, and MS writing, and participate in conferences. You could also carry out a laboratory experiment on seasonal phenotypic plasticity (in India). You will receive training in genome analysis from Vicencio Oostra (Queen Mary University, London) and attend training courses.

We are looking for candidates with an MSc in Biology, a demonstrated interest in evolutionary ecology and molecular genetics, and preferably with programming experience (e.g. R, Python). Strong interpersonal skills and a good level of English are also important.

The Adam Mickiewicz University is among the best institutes in evolutionary biology and ecology in Poland and you would be part of an international team of experts with complementary skills. The doctoral school includes coursework and requires some hours of teaching practice. The stipend of 5000 PLZ per month (gross) is comfortable in Poland, and Poznan is a pleasant city.

If interested, please send your CV with a cover letter, a (draft) publication or report, and the names and e-mail addresses of two references to fremol@amu.edu.pl.

Please add a signed consent clause in your application: “I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

Successful candidates will be subject to the recruitment to the Doctoral School of Natural Sciences at the Adam Mickiewicz University.

Sincerely,

Freerk Molleman <https://www.researchgate.net/profile/Freerk-Molleman> Ullasa Kodandaramaiah <http://www.vanasiri.in/> Vicencio Oostra <https://www.vicencio.eu/> Urszula Walczak <https://www.researchgate.net/profile/Urszula-Walczak> Freerk Molleman <fremol@amu.edu.pl>

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UBern CichlidEvolution

10 June, 2022

PhD in Evolutionary Genomics of Cichlid Fishes (100%)

Supervisors: Dr. Pooja Singh and Prof. Ole Seehausen
Starting date: 01-09-2022

We are seeking to fill a PhD position funded for 4 years in the group led by Prof. Ole Seehausen based at the University of Bern (Bern) and the Swiss Federal Institute of Aquatic Sciences (EAWAG) on the shores of Lake Lucerne. We are looking for an enthusiastic young researcher to work towards understanding the evolutionary dynamics of speciation and adaptive radiation in cichlid fishes of Lake Victoria in East Africa by integrating genomics, transcriptomics, morphology and ecology. It is important that the applicant has an inquisitive mind and can shape the research questions based on their interests.

Lake Victoria, the largest tropical lake in the world, hosts a radiation of ~500 endemic species of cichlid fishes that arose in the last ~15,000 years. This radiation represents the fastest known sustained rates of speciation in vertebrates. The cichlid species-flock of Lake Victoria is incredibly diverse phenotypically and ecologically, and thus is an exciting and dynamic system to study the processes underlying speciation, ecological diversification, coexistence and extinction. You will be working alongside group members who are focused on various aspects of the evolution of this radiation such as: ecology, morphology, taxonomy, paleolimnology, and genomics.

Requirements: A background in molecular genetics. Experience with linux and coding in R and/or Python. Experience handling NGS data and bioinformatics. Prior experience in morphometrics is desirable but not required. Ability to work independently but also syner-

gistically with other group members is important. The working language of the group is English, and knowledge of French/German is not required.

Salary: Determined according to University of Bern salary scheme for PhD students.

Diversity and equity are key values of our group, and we especially encourage people of colour, individuals from the Global South and other underrepresented groups in Ecology and Evolution to apply for this position.

Review of applications starts on 31st of July 2022 and continues until the position is filled. Please direct inquiries to Prof. Ole Seehausen (ole.seehausen@unibe.ch) or Dr. Pooja Singh (pooja.singh@unibe.ch)

Applications: One pdf file only, with CV, letter of motivation, transcript of MSc with grades, publication list, and contact details of three referees should be send by email to pooja.singh@iee.unibe.ch. The email subject should be: 'phd cichlid application'.

Switzerland offers an excellent quality of life and is a great springboard for a successful career globally.

pooja.singh@unibe.ch

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UBielefeld Two Evolution

Job listing 1: -----

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

Research Position (PhD candidate) in Evolutionary Genetics ID: Wiss22435 - Start: 01.01.2023 - part-time 65 % - salary according to Remuneration level 13 TV-L - fixed-term

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

ing the role of plasticity in the evolutionary process.

Your Tasks research tasks (95 %): - experimental work with freshwater gastropods - preparation of epigenetic and genetic libraries - analysis of epigenetic and genetic data - collaboration with other researchers - preparation of contributions for scientific conferences - writing scientific publications for international journals other tasks (5 %): - organizational tasks within the research group

The employment is designed to encourage further academic qualification

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

Your Profile

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

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

Application Procedure We are looking forward to receiving your application. For full consideration, your application should be received via either email (a single PDF document is required) sent to denis.meuthen@uni-bielefeld.de or post (see postal address). Please mark your application with the identification code: Wiss22435. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. For Information on the processing of personal data [click here](#).

application deadline: 07.07.2022

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

Postal Address Universit??t Bielefeld Faculty of Biology
Dr. Denis Meuthen Postfach 10 01 31 33501 Bielefeld

Job Listing 2: ----

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

Research Position (PhD candidate) in Chemical Ecology ID: Wiss22436 - Start: 01.04.2023 - part-time 65 % - salary according to Remuneration level 13 TV-L - fixed-term

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

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UCologne PolygenicAdaptationPleiotropy

Two PhD positions in theoretical and computational genetics

We are looking for two PhD students for a collaborative project between the groups of Prof. Joachim Krug (Institute for Biological Physics) and Dr. Markus Stetter (Institute for Plant Sciences) on the roles of polygenic adaptation and pleiotropy in the evolution of

plant populations under changing environments. The project combines analytic theory, simulations, and the analysis of large-scale empirical data from different plant species, and is part of the new Collaborative Research Center TRR341 “Plant Ecological Genetics” funded by Deutsche Forschungsgemeinschaft (DFG). The focus of the project is the joint adjustment of multiple phenotypic traits, so-called adaptive trait syndromes, which play an important role in ecological specialization.

PhD1 (Krug lab): The student will develop and study analytical models for the adaptation of single and multiple traits under different environmental scenarios. The mathematical framework is based on Fisher’s geometric model (Hwang et al. 2018), which combines an additive genotype-phenotype map with a nonlinear phenotype-fitness map displaying a unique optimal trait combination. The project is suitable for applicants with a background in theoretical population genetics, theoretical physics or mathematics.

PhD2 (Stetter lab): The student will employ forward-in-time simulations to study the adaptation of single and multiple traits under different environmental scenarios. Building up on previous research (Stetter et al 2018) you will apply these models to explicit plant populations and compare them to empirical data. The project is suitable for applicants with a background in (theoretical) population genetics, quantitative genetics or mathematics.

What we expect and what we offer: We are looking for highly motivated individuals with a basic knowledge in population and quantitative genetics, good computational skills, and a degree in biology, physics, mathematics or computer science. Previous experience with population genetic simulations is an asset but not a requirement. Successful candidates will be integrated into the newly established Graduate School in Ecological Genetics (GEcoGen). Salary will be based on 65% of the level E13 of the German public service salary scale (TV-L). The project can start as soon as we have found a suitable candidate.

How to apply: Applications including a CV, degree certificates, a letter of motivation, and names and contact information of two references should be submitted before July 10, 2022 at <https://jobportal.uni-koeln.de>. The reference number is Wiss2206-01. Please mention project “B6” and the name of the lab (Krug or Stetter) to be associated to the correct project. For further information about the project and the consortium please contact the PI’s or consult <https://jobportal.uni-koeln.de/-ausschreibung/renderFile/849?propertyName=3Dflyer> Joachim Krug (jkrug@uni-koeln.de) Markus Stetter (m.stetter@uni-koeln.de)

Dr. Markus Stetter Group Leader cropevolution.org
m.stetter@uni-koeln.de @mgstetter

University of Cologne Institute for Plant Sciences Biozentrum
ZiL $\frac{1}{2}$ lpicher Str. 47b 50674 Cologne/Germany

Markus Stetter <m.stetter@uni-koeln.de>

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

UGothenburg QuantitativeGenetics

Apologies for the repeat posting! The original post somehow contained broken links, which have now been corrected, I hope!

Fully Funded PhD Position on the quantitative genetic paradox of stasis, and its relevance for sustainable pest control. Deadline for applications is July 4, 2022.

Webpage for advertisement, including link for applying, is here: <https://web103.reachmee.com/ext/I005/1035/main?site=-7&validator89bead79bb7258ad55c8d75228e5b7&lang=UK&rmpage=job&rmjob&217> Advertisement in Swedish is here: <https://web103.reachmee.com/ext/I005/1035/main?site=6&lang=-SE&validator038fcf1516ea1184a6da70a891f87da&rmpage=job&rmjob&214> *** Doctoral student in Natural Science, specialising in Biology

Ref PAR 2022/952

The University of Gothenburg tackles society’s challenges with diverse knowledge. 56 000 students and 6 600 employees make the university a large and inspiring place to work and study. Strong research and attractive study programmes attract scientists and students from around the world. With new knowledge and new perspectives, the University contributes to a better future.

Doctoral position in Natural Science, specialising in Biology

At the Department of Biological and Environmental Sciences (BioEnv) we have teaching and research activities that stretch from the alpine ecosystem, through forests, cultivated land and streams, all the way into the marine environment. In these environments we study different levels of biological organisation from genes, individuals

and populations to communities and ecosystems. We work within ecology, evolution, physiology, systematics, and combinations of these fields to understand the impact of natural and anthropogenic changes of the environment.

The department is placed at three different localities: in Gothenburg Botanical Garden, at Medicinarberget in Gothenburg and Kristineberg Marine Research Station. The current position is placed in the Gothenburg Botanical Garden.

General information about being a doctoral student at the University of Gothenburg can be found on the university's doctoral student pages.

<https://medarbetarportalen.gu.se/doktorand/?languageId=0001&skipSSOCheck=true> Project description

The quantitative genetic paradox of stasis, and its relevance for sustainable pest control.

Pathogens provide some of the strongest selection pressures in nature, driving continual dynamic coevolutionary interactions with their hosts. While such strong selection might normally erode genetic variation, genetic variation for resistance to pathogens is typically high, because hosts can usually only resist a subset of pathogens circulating in a population (i.e., pathogens tend to show specificity in their ability to infect hosts). As soon as particular pathogen strains or host genotypes become prevalent, they experience negative frequency-dependent selection that favours other strains or genotypes, and thereby maintains genetic variation in the wider population.

These phenomena are relevant for the sustainable use of biopesticides, a welcome new technology that enlists living organisms in the fight against crop pests. Synthetic chemical pest control can be problematic because it often conflicts with other sustainable development goals by damaging non-target organisms and disrupting natural food webs. Moreover, despite intensive research and development, insects continue to evolve resistance to synthetic pesticides with predictable regularity, eluding even the most ingenious attempts to prevent resistance evolution.

The fact that insect pathogens rarely engender resistance is therefore an alluring aspect on the side of biopesticides. However, unlike natural enemies, industrially produced biopesticides cannot coevolve with pests, and most research and development has focussed intensely on a small number of highly pathogenic strains. We therefore urgently need to find alternative ways to prevent pest resistance to biopesticides.

We have recently proposed an innovative and evolutionarily sustainable approach to pest control that harnesses rather than resists the enormous evolutionary potential of pest populations. It relies on the observation that strong pathogen-induced selection in nature does not always produce evolutionary responses, the so-called "paradox of stasis". The paradox can arise for multiple reasons, including trade-offs between characters or across habitat patches, and it could conceivably allow farmers to vary selection in subtle ways that preserve genetic diversity

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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>

UHelsinki WildlifeBiology

Dear all

LUOVA (the Doctoral Programme in Wildlife Biology) offers doctoral researcher positions for 1-4 years, starting January 1st, 2023. The call for applications is open from August 29 to September 16, 2022 on LUOVA's webpage.

Mia Vehkaoja, PhD Planning officer, Doctoral education Tel: +358 294158150, +358 504722525 Room 2801, Biocenter 3 PO Box 65, Viikinkaari 1 00014 University of Helsinki, Finland FoodHealth - Doctoral programme in Food Chain and Health foodhealth-info@helsinki.fi

Luova - Doctoral programme in Wildlife Biology luova-info@helsinki.fi

MBDP - Doctoral programme in Microbiology and Biotechnology mbdp-office@helsinki.fi

YEB - Doctoral school in Environmental, Food and Biological Sciences yeb-info@helsinki.fi

"Vehkaoja, Mia C" <mia.vehkaoja@helsinki.fi>

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Ullinois FishEvolutionGenomics

Ullinois.FishEvolutionGenomics

The Biodiversity Genomics Lab of the Illinois Natural History Survey (Tan Lab) at the University of Illinois at Urbana-Champaign is seeking to recruit a M.S. or Ph.D. graduate student interested in fish evolution and genomics to start in Fall semester of 2023. The lab's theme is in studying evolution and diversification in fishes by applying phylogenetic, genomic, and comparative methods. Projects in the lab focus on multiple fish systems including catfishes, cypriniforms (carps and minnows), and shark. Projects in the lab can apply a variety of methods including phylogenomics, comparative phylogenetic methods, genomics, bioinformatics, transcriptomics, and morphological studies including museum specimens. Experience with genomics is desirable, though not required. For more information on the research occurring in the lab, see this page: <https://miltontan.github.io/research/> The University of Illinois has a strong collection of faculty in the Department of Evolution, Ecology, and Behavior and the School of Integrative Biology. The student may enroll with the Department of Evolution, Ecology, and Behavior (http://sib.illinois.edu/animalbiology/-graduate_admissions) or the interdisciplinary Program in Ecology, Evolution, and Conservation Biology (http://peec.illinois.edu/prospective/pre_application). Champaign-Urbana has a diverse, affordable, micro-urban community, are great college towns, and are close to three major cities including Chicago. Learn more about Champaign-Urbana here: <http://www.yourewelcomecu.com/cu-community/> The Illinois Natural History Survey is a part of the Prairie Research Institute (PRI) at the University of Illinois at Urbana-Champaign. Since 1858, the INHS has been the guardian and recorder of the biological resources of Illinois the state's biological memory. With a staff of over 200 scientists and technicians, it is recognized as the premier natural history survey in the nation. The INHS Biological Collections include more than 9.5 million specimens housed in eleven separate collections, including the most complete record of Illinois biota anywhere, as well as having global geographic coverage for many groups. The fish collection alone houses over 1 million specimens and ranks within the top 15 largest in North America, providing an excellent resource for research into fish biodiversity.

Interested students are encouraged to contact Dr. Milton Tan miltont@illinois.edu with a brief statement of their research interests, experience, and accomplishments and a CV prior to express their interest and communicate about the opportunity. Application deadlines for EEB and PEEC programs are as early as December 1st 2022, applications will be considered after that date.

Thanks,

Milton Tan, Ph.D. (He/Him) Assistant Research Scientist in Biodiversity Genomics Illinois Natural History Survey Prairie Research Institute University of Illinois at Urbana-Champaign

"Tan, Milton" <miltont@illinois.edu>

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UInnsbruck HeatwaveAdaptation

Graduate Position: UInnsbruck.HeatwaveAdaptation

A PhD student position is available in the group of Aquatic Evolutionary Ecology at the University of Innsbruck (Research Department for Limnology, Mondsee), Austria.

The position is initially for 20 hours per week. Followed by the submission of the dissertation agreement, the working hours will increase to 30 hours per week.

In this position, you will experimentally examine the evolutionary ecology of the responses of the freshwater snail *Lymnaea stagnalis* to changing environmental conditions under climate change. The specific goals are to reveal (1) how selection imposed by heatwaves operates on snail phenotypes and (2) how snails evolve over generations when periodically challenged by high temperature. The project is linked to other work in the research group of aquatic evolutionary ecology (led by Prof. Seppälä) that focuses on the evolutionary adaptation of organisms to environmental change and natural enemies.

General information about the research group and the institute can be found at <https://www.uibk.ac.at/limno/>

The Research Department for Limnology is located on the edge of the Alps in the small town of Mondsee (Upper Austria). The nearest city is Salzburg, which offers history, culture and entertainment at a convenient distance from Mondsee.

We invite highly motivated students with a strong background in evolutionary ecology and experimental work to apply for this position. A master's degree (or equivalent) is required. Earlier experience with the study system is not necessary. The project is funded for 4 years.

Earliest starting date: July 1, 2022.

Qualified persons are invited to apply through the Career Portal of the University of Innsbruck (position: BIO-12725) at: https://lfuonline.uibk.ac.at/public/-karriereportal.details?asg_id_in=12725 Please include a CV and a written idea for your dissertation project (max. 5 pages; only full applications will be considered). The deadline for applications is June 23, 2022. Top candidates will be interviewed.

The minimum gross salary (stipulated by collective agreement) for 20 hours per week amounts to EUR 1.529 per month (14 times). The salary will be increased to EUR 2.293 once the dissertation agreement has been signed and sent to the Personnel Department. The salary will be higher if you have worked in a similar position earlier. Furthermore, the university has numerous attractive offers (<https://www.uibk.ac.at/-universitaet/zusatzleistungen/>).

For more information considering the project, please contact Prof. Otto Seppälä: otto.seppaelae@uibk.ac.at
"Burggraf, Sonja" <Sonja.Burggraf@uibk.ac.at>

UInnsbruck HeatwaveAdaptation DeadlineExtended

The deadline for the applications was extended until 7th July 2022.

Dear EvolDir Community!

JOB OFFER: Graduate Position: UInnsbruck.HeatwaveAdaptation

A PhD student position is available in the group of Aquatic Evolutionary Ecology at the University of Innsbruck (Research Department for Limnology, Mondsee), Austria.

The position is initially for 20 hours per week. Followed by the submission of the dissertation agreement, the working hours will increase to 30 hours per week.

In this position, you will experimentally examine the evolutionary ecology of the responses of the freshwa-

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General information about the research group and the institute can be found at <https://www.uibk.ac.at/limno/>. The Research Department for Limnology is located on the edge of the Alps in the small town of Mondsee (Upper Austria). The nearest city is Salzburg, which offers history, culture and entertainment at a convenient distance from Mondsee.

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The minimum gross salary (stipulated by collective agreement) for 20 hours per week amounts to EUR 1.529 per month (14 times). The salary will be increased to EUR 2.293 once the dissertation agreement has been signed and sent to the Personnel Department. The salary will be higher if you have worked in a similar position earlier. Furthermore, the university has numerous attractive offers (<https://www.uibk.ac.at/-universitaet/zusatzleistungen/>).

For more information considering the project, please contact Prof. Otto Seppälä: otto.seppaelae@uibk.ac.at

"Burggraf, Sonja" <Sonja.Burggraf@uibk.ac.at>

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UKonstanz EvoDevo

PhD position in evo-devo

University of Konstanz, Department of Biology, Chair of Zoology and Evolution

Konstanz, Germany.

Earliest starting date: August 1st, 2022 or later

Description The project will investigate shared and divergent genetic programs underlying the formation of scales and fin rays as well as how these elements have diversified across the radiation of teleost fishes. The primary model organism will be direct-developing cichlid fish (*Astatotilapia burtoni*) but also zebrafish and sturgeon will be used during the course of the project. The ideal candidate has a strong interest in evo-devo and already has experience with the embryology of aquatic vertebrates and standard molecular laboratory methods. The project is funded by the German Research foundation (DFG) and appointment will be for a period of three years at 65% TVL13 according to a standard German PhD contract at the University of Konstanz in Southern Germany. The candidate could already start this summer and we anticipate to fill the position no later than fall 2022.

Qualifications

Required: Master degree in Biological sciences or related

Preferred: Experience in developmental biology/embryology.

Application Instructions

To Apply Submit the following documents to joost.woltering@uni-konstanz.de

- Cover letter - C.V. - Contact information for 2 References

Applications will be considered until the position is filled.

Informal inquiries about the position are encouraged: joost.woltering@uni-konstanz.de

Joost Woltering <joost.woltering@uni-konstanz.de>

ULyon ComparativePhylogeneticMethods

A fully funded PhD position (3 years) on macroevolution \ll understanding how past environmental changes (such as climatic changes) have influenced the tempo of species phenotypic evolution \gg is available at the University of Lyon (France) with Julien Clavel, in collaboration with H el ene Morlon at the Biology Institute of the Ecole Normale Sup erieure in Paris (France) and Anjali Goswami at the Natural History Museum (UK). The PhD is part of a ANR (French National Research Agency) project "CHANGE" and start is expected in September 2022 (but potential later start is possible). Deadline for application: July 26th 2022.

The successful candidate will work on the development of new phylogenetic comparative tools to assess how species ecologies interact with various environmental changes to modulate phenotypic evolution. These developments will be used on empirical data (including 3D morphological data) to assess the effect of past environmental changes at various evolutionary scales across tetrapod clades. Strong competences in statistics/statistical modelling and coding (e.g., R) are highly recommended.

Candidates are invited to apply by email (to julien.clavel@univ-lyon1.fr). Please attach a single PDF file including a letter of motivation, a C.V. and the names and addresses of two references.

Julien CLAVEL - CR CNRS UMR CNRS 5023 LEHNA
Universit e Claude Bernard Lyon 1 B at. Forel - 6, rue Rapha el Dubois 69622 Villeurbanne - France
julien.clavel@univ-lyon1.fr Tel. : +33 (0)4 72 44 84 24

Julien Clavel <clavel@biologie.ens.fr>

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UMississippi EvolutionTreeFrogs

Ph.D. Positions in Neuroendocrinology

We seek to recruit two highly motivated Ph.D. students with strong interests in neuroendocrinology to work

with Christopher Leary, Lainy Day, and Susan Balenger in the Department of Biology (biology.olemiss.edu) at the University of Mississippi (<https://www.olemiss.edu/>). The successful candidates will be directly involved in NSF funded research aimed at understanding how changes in gene dosage associated with polyploidization in the gray treefrog species complex impact neuroendocrine regulation. Students will learn mechanisms of endocrine control, hormone manipulation procedures, radioimmunoassay, immunocytochemistry, and brain anatomy and sectioning. Research results will be integrated with steroid receptor mRNA expression levels from brain regions regulating gonadal and glucocorticoid production and steroid binding protein data. The candidates will be directly involved in extensive field data collection from populations of frogs across the eastern United States and broader impacts initiatives aimed at training high school and undergraduate students. Previous training in neuroendocrinology, radioimmunoassay procedures, immunocytochemistry, brain sectioning, or experience working with amphibians is highly desirable but not required. The candidate will be expected to present their findings at scientific conferences and prepare manuscripts for publication in high-quality peer-reviewed journals.

Required Qualifications: A strong interest in pursuing dissertation research involving amphibians, endocrinology, and neurobiology. Ability to work long hours in the field at night at various locations throughout the eastern U.S. This position is for a term of up to four years as a research assistant during the Spring and Summer and will be supplemented with departmental teaching assistantships during the Fall semester.

Please send inquiries to Christopher Leary (cjleary@olemiss.edu). Proposed Start Date: Fall semester 2022 or Spring 2023.

Susan Balenger, PhD Assistant Professor Dept. of Biology University of Mississippi <http://susanbalenger.weebly.com/> balenger@olemiss.edu

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UMuenster Beetles EvolEpigen

The Institute for Evolution and Biodiversity at the University of Muenster, Germany, invites applications for the position of a

Doctoral Research Associate (PhD position) (salary level TV-L E 13)

We are offering this fixed-term PhD position (salary 65% FTE) within the research group of Prof J Kurtz for 3 years, starting at the earliest possible date.

Your tasks: This research project focuses on the evolution of epigenetic regulation and the means by which epigenetic regulation is achieved in insects shows a remarkable evolutionary flexibility. Even within the group of beetles, some species rely on CpG methylation, while other species have lost the relevant DNA methyltransferases (Dnmt genes). Using beetles as models, our project aims to understand the evolution of epigenetic regulation systems, elucidate the alternative functions of DNA methyltransferases and assess the mutual dependences between DNA methylation and histone modification.

The successful candidate will make use of the combined power of sequencing technology to analyse epigenetic processes (Methyl-Seq, Cut&Tag, RNAseq) and functional validation (RNAi) in up to ten beetle species. The candidate will collaborate intensively with a PhD student in the group of Prof Sonja Prohaska, University of Leipzig, who will contribute expertise in bioinformatics.

The project is part of the Priority Programme “Genomic Basis of Evolutionary Innovations (SPP 2349 GEvol, <https://g-evol.com>)” funded by the German Research Foundation (DFG). The goal of GEvol is to collaboratively and interdisciplinarily exploit new computational and OMICS methods to reveal the history of genomes in the insect taxon through comparative genomics.

Our expectations: Applicants should be a highly motivated scientists interested in interdisciplinary work. They should have the equivalent of a master’s degree in biology, preferentially with a focus on evolution, molecular biology, genomics or a related field. A background, and ideally some experience, in any of the following areas will be useful: molecular laboratory skills, functional genomics and/or practical insect work. Applicants should have excellent communication skills and be able to work both independently and as part of a multidisciplinary

team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement.

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

Information about the University of Muenster, Germany: 45,000 students and 8,000 employees in teaching, research and administration, all working together to shape perspectives for the future ' that is the University of Muenster (WWU). Embedded in the vibrant atmosphere of Muenster with its high standard of living, the University's diverse research profile and attractive study programmes draw students and researchers throughout Germany and from around the world.

The University of Muenster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. The University of Muenster is committed to employing more staff with disabilities. Candidates with recognised severe disabilities who have equivalent qualifications are given preference in hiring decisions.

Are you interested? Then we look forward to receiving your application, written in English, in one single PDF file, by 30 June 2022. Applications should be sent to Prof Joachim Kurtz at: Joachim.Kurtz@uni-muenster.de. Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about research experience and publications, and 3) contact details for at least two referees.

Prof. Dr. Joachim Kurtz

University of Muenster Institute for Evolution and Biodiversity Animal Evolutionary Ecology Group Huefferstr. 1, 48149 Muenster, Germany

Phone (secretary): + 49 251 83 21638 Phone (direct): + 49 251 83 24661 Fax: + 49 251 83 24668 Room: 109 joachim.kurtz@uni-muenster.de <http://www.uni-muenster.de/Evolution/-animalevolecol/kurtz.shtml> DFG Research Training Group GRK 2220 EvoPAD <https://www.uni-muenster.de/EvoPAD/> DFG SFB-TRR 212 NC3

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UMuenster EvolutionaryGenomics

Dear friends and colleagues,

A new Priority Programme (SPP 2349) funded by German Science Foundation (DFG), starting summer 2022: "Genomic Basis of Evolutionary Innovations (GEvol)" Several open position will be offered in different cities of Germany in the next months. At the moment you can find already three open positions on our webpage. Please check the webpage regularly to keep updated or follow us on twitter, where open positions will be tweeted and retweeted.

<https://g-evol.com/opens.html> twitter: @SPP_GEvol

Best wishes,

Anna Kersting

Dr. Anna Kersting Westfälische Wilhelms-Universität Münster Institute for Evolution and Biodiversity - Molecular Evolution and Bioinformatics - @SPP_GEvol Hüfferstr. 1 48149 Münster

Handy: + 49 (0) 1577 2630927 a.kersting(at)uni-muenster.de <http://bornberglab.org/people/kersting/> <https://g-evol.com/members.html> Anna Kersting <a.kersting@uni-muenster.de>

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UMuenster TheoreticalEvolGenetics

Graduate position: UMuenster.TheoreticalEvolGenetics
PhD position in Theoretical Biology at University of Muenster, Germany. Application deadline July 31

Dear evodir community,

I am looking for a PhD student to work in theoretical evolutionary genetics. The PhD project will explore po-

tential conflict and collaboration between transposons and their *Drosophila* hosts. To this end the PhD student will model population dynamics of transposable elements both within a genome and across species. This project is also highly interdisciplinary as these theoretical results will be compared to the experimental findings from the collaborative project by Prof. Wilfert (University of Ulm).

The position is funded for three years as part of the project FlyInnovation, a collaborative project together with the empirical group of Prof. Wilfert, working within the DFG-funded Priority Programme GEvol (<http://g-evol.com/>). The goal of GEvol is to collaboratively and interdisciplinarily exploit new computational and OMICS methods to reveal the history of genomes in the insect taxon by comparative genomics. The PhD candidate will optimally start in Fall 2022.

Research tasks: - development and analysis of eco-evolutionary models; - numerical implementation (e.g. C++, Julia, Python); - genomic data analysis (obtained from the Wilfert lab and the wider consortium of the GEvol Priority Programme) and comparison to theoretical predictions; - writing of scientific publications; - interdisciplinary collaboration with the Wilfert lab

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

Preferred experience and skills: - experience with mathematical modelling and/or experience with genomic data analysis

Please send your application in one single PDF file by July 31 2022. Applications should be sent to p.czuppon@uni-muenster.de and should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about research experience and (if it applies) publications, and 3) contact details for two references.

For full details, please see the official advertisement at: https://www.uni-muenster.de/Rektorat/Stellen/-ausschreibungen/st_20222406_sk13.html Best wishes, Pete Czuppon

p.czuppon@uni-muenster.de

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

Queensland AntibioticResistance

The Engelstaedter Lab at The University of Queensland, Brisbane, Australia, invites applications for a PhD position in microbial evolutionary biology. The successful candidate will work on projects investigating the evolution of antibiotic resistance in bacteria. Specific projects are flexible and will be arrived at in discussion with the candidate. Our previous research includes work on the evolution of natural transformation, integron evolution, fitness landscapes underlying drug resistance evolution and the predictability of evolutionary dynamics. We use a combination of different approaches in our lab, including mathematical modelling, bioinformatics and experimental evolution. For details about our research and recent publications, see our website at <http://engelstaedterlab.org/>. We are looking for a highly motivated student with a strong background in evolutionary genetics, bioinformatics, mathematics and/or microbiology. Applicants should possess a Bachelor's degree with Honours, Master of Science, MPhil or equivalent. Good communication skills, scientific curiosity and enthusiasm for research in evolutionary biology are essential.

The School of Biological Sciences is a large and research-intensive unit at the University of Queensland, one of Australia's most prestigious universities. Brisbane is the third-largest city in Australia and offers mild subtropical climate, vibrant cultural life, plenty of outdoor activities and native wildlife.

Acceptance for this PhD is contingent on successful application for a PhD scholarship. Several PhD scholarships for domestic and international students are available; options will be discussed during the interview.

Interested applicants should send a cover letter (including a brief outline of their research interests), CV, and academic transcript to j.engelstaedter@uq.edu.au. Informal inquiries are also welcome. Please submit your application before 24 June 2022 to be considered for the international scholarships.

Dr Jan Engelstaedter Associate Professor School of Biological Sciences The University of Queensland Brisbane QLD 4072 Australia

phone: +61 7 336 57959 fax: +61 7 336 51655 <http://engelstaedterlab.org/> j.engelstaedter@uq.edu.au

UtrechtU Two QuantBiodiversity

At Utrecht University (NL) a new research unit (Quantitative Biodiversity Dynamics) has two PhD positions available focussed on the application and development of methods to quantify processes underlying the origination, maintenance and dynamics of biodiversity. Incorporating multiple disciplines from ecology, evolution, mathematics and information sciences to achieve a better understanding of the dynamics of biodiversity. For more information or to apply, please visit <https://www.uu.nl/en/organisation/-working-at-utrecht-university/jobs/two-phd-positions-in-dynamics-of-ecology-10-fte> . Best,

Edwin.

Dr. E.T. (Edwin) Pos|ScientificDirector Utrecht Botanic Gardens|UtrechtUniversity|Address Gardens: Budapestlaan17, 3584 CD Utrecht|Postal Address: P.O.Box 80162, 3508TD Utrecht, The Netherlands|+31(0)6 3435 6984|+31(0)30 2531826|e.t.pos@uu.nl|botanische.tuinen@uu.nl|uu.nl/botanische.tuinen|Follow us on Facebook|Twitter|Instagram

“Pos, E.T. (Edwin)” <E.T.Pos@uu.nl>

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UUm Two InsectEvolution

— One of Two —

Fully funded PhD position in evolutionary genetics of *Drosophila*-transposon interactions at the University of Ulm, Germany.

Title - FlyInnovation - Are telomere specific retroelements an innovative solution to the end-replication problem?

This PhD project in evolutionary insect genetics studies potential conflict and collaboration between transposons and their *Drosophila* hosts. The position is funded for three years as part of the project FlyInnovation at the University of Ulm, Germany, and is part of the large interdisciplinary DFG funded Priority Programme GEvol.

Eukaryotes face a challenge: they must protect coding DNA from getting shorter with each round of cell replication. Telomeres are a widespread solution to this challenge. These repetitive DNA motifs cap chromosome ends and protect coding DNA. Because telomeres and telomerase (the enzyme that maintains telomeres) are vital to chromosome integrity they are highly evolutionarily conserved. This makes the Diptera unusual 'flies have lost telomeric repeats and telomerase. Among the Diptera, *Drosophila* are unique: they are the only genus we know of where transposable elements (TEs) are the sole means of maintaining chromosome ends. These TEs act like telomerase, extending telomeric regions by successive transposition. This system has been heralded as a clear-cut example of TE domestication but evidence in support of this idea is lacking. We will unite theoretical and empirical approaches to determine if telomere-specific TEs are an innovative means of preserving chromosome ends in the absence of telomerase, or selfish genetic elements avoiding host-silencing in a genomic safe-site.

This project works alongside a theoretician who will apply methods from ecology to model the evolutionary dynamics of TEs. This studentship will test these models, and link TE abundance and diversity to phenotype to understand if TEs and hosts are cooperating, or in conflict. This will involve large scale laboratory experimentation with multiple insect species, molecular analyses (qPCRs, preparing samples for sequencing) and cytological analyses (oligopainting and Fluorescence in Situ Hybridization). The project will also entail analyzing molecular data and phylogenetic analyses.

This PhD studentship is part of a collaborative project with Dr. Pete Csuppon (University of Münster), working within the DFG funded Priority Programme GEvol. The goal of GEvol is to collaboratively and interdisciplinarily exploit new computational and OMICS methods to reveal the history of genomes in the insect taxon by comparative genomics. At the institute of Evolutionary Ecology and Conservation Genomics, an interactive and international team studies diverse topics in evolutionary ecology, including host-pathogen interactions (Prof. Wilfert), insect evolutionary genetics and metabolomics (Dr. Ruth Archer), conservation genomics (Prof. Sommer) and pollinator ecology (Profs. Ayasse and Tschapka), with the possibility to collaborate with Prof. Niessing (Institute of Pharmaceutical Biotechnology) on FISH analysis.

Applicants will possess a relevant Master degree in evolutionary biology or a related field of study. The successful applicant should have expertise in the fields of evolutionary ecology, genetics or evolutionary genomics. Applicants should ideally have expertise in experimen-

tal quantitative genetics, molecular techniques and/or bioinformatics. Experience in working with live insects would be desirable. The successful applicant will be able to work autonomously but also collaboratively and will have excellent oral and written English language skills.

The position will be based at the University of Ulm, at the Institute of Evolutionary Ecology and Conservation Genomics. Ulm is a delightful historic city on the Danube in Southwestern Germany; it is one hour from the Alps, Lake Constance, Munich and Stuttgart. Additionally, the position includes work in partner labs in Cologne, Freiburg and Hannover.

For further information, please contact Prof. Lena Wilfert (lena.wilfert@uni-ulm.de) or Dr. Ruth Archer (rutharcher0@gmail.com). The closing date is the 27th of June 2022. Applications should include a cover letter describing your motivation and research interest, a CV and digital copy of your MSc/Diploma certificates and transcript of records. The job advert with detailed information on profile and responsibilities, as well as the link to the online application system can be found here (reference 22078) <https://stellenangebote.uni-ulm.de/jobposting/-d7f4aa4e8e7ece88e62127477c8d7e4347cfef23> Please note that applications have to be processed online!

Prof. Dr. Lena Wilfert University of Ulm Institute of Evolutionary Ecology and Conservation Genomics Albert-Einstein Allee 11 D-89069 Ulm Germany Tel.: 0049-731-5030615 Fax: 0049-731-5022683

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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>

UZurich
AppliedEvolutionaryBiology

We are seeking a PhD student to join us (Prof. Anna Lindholm & Dr. Andri Manser) in a research project at the Department of Evolutionary Biology and Environmental Studies at the University of Zurich, Switzerland, assessing the potential of a naturally occurring selfish genetic element (called t haplotype) as a tool to control invasive mouse pests on islands where they harm endemic wildlife. The t haplotype is a supergene in house

mice with two seemingly ideal characteristics for pest control. First, males that carry two copies of the gene (t/t homozygotes) are completely sterile. Second, males that carry only one copy of the t (+/t heterozygotes) pass the gene on to 95% of their offspring rather than the 50% expected under Mendelian inheritance (gene drive), allowing the genetic propagation of the sterile t in a population. Preliminary work suggests that sterile t releases could offer a powerful, versatile, and humane tool to eradicate target populations due to a lack of fertile males. The aim of the project is to assess the potential of the sterile t as a pest control tool from a wide range of methodological angles.

What will you be doing?

The applicant will study the impact of sterile males on offspring production in settings of increasing complexity, from a laboratory experiment, to enclosure populations, to releases into a semi-natural population where sterile males have to integrate into a preexisting complex social environment. Additionally, the applicant will have the opportunity to contribute to analysis of relevant large datasets, and/or modelling.

What are we looking for?

You are passionate about evolutionary biology and keen to explore how evolutionary concepts could be applied to solve a major practical problem. You enjoy working with animals as well as designing and implementing experiments to test your ideas. You are highly motivated, collaborative and an excellent communicator, and have a demonstrable desire to learn new skills. Experience with animal experiments, data analysis, and modelling will be viewed as a bonus. You bring a relevant MSc degree or equivalent.

What we offer

The great majority of your time will be spent on research. We offer excellent experimental facilities, great collaborators, and strong support in developing your scientific skills and abilities. Participation in teaching activities, and taking classes, is part of your training. The project has four years of funding, with a generous salary. We provide a highly international largely English speaking environment.

How to apply

Please submit applications as a single pdf file, including a letter of motivation that highlights your interest in and suitability for the project, your CV, and recommendation letters or contact details of 2 references, by email to Dr Anna Lindholm (anna.lindholm@ieu.uzh.ch). Screening of applicants is ongoing and continues until the end of July 2022. Starting date: Autumn 2022 (to

be negotiated) Studies University of Zurich
 Prof Anna Lindholm Winterthurerstrasse 190 8057 Zurich Switzerland
 Department of Evolutionary Biology and Environmental anna.lindholm@ieu.uzh.ch

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CalicoLifeSci QuantitativeGenetics

Title: Scientist, Quantitative Genetics in Model Organisms

Location: Calico Life Sciences in South San Francisco, CA

Who we are: Calico (Calico Life Sciences LLC) is an Alphabet-founded research and development company whose mission is to harness advanced technologies and model systems to increase our understanding of the biology that controls human aging. Calico will use that knowledge to devise interventions that enable people to lead longer and healthier lives.

Position description: Calico seeks an experienced quantitative geneticist who is enthusiastic to perform GWAS-style genetic analyses in model-organism populations. The ideal candidate will have extensive experience with genetic mapping and derivative analyses (GWAS, genetic risk scores, genetic correlations, co-localization,

Mendelian randomization, etc.). That background may come from either analysis of human populations or non-human model organisms. She/he/they will be familiar with prominent tools in this field (e.g. BOLT-LMM, LDSC, etc.) and will have a sufficient theoretical foundation to feel comfortable adapting or implementing methods for novel organism populations.

This role exists within a small, cross-functional but data-science-focused team, where this individual will bear primary responsibility for genetic analyses, as well as for the presentation, write-up, and publication of results. The ideal candidate will be comfortable multi-tasking across multiple projects that are unified in their use of quantitative genetics methodology and explore diverse, exciting domains of physiology. She/he/they will also be enthusiastic about working collaboratively with a cadre of highly-skilled quantitative geneticists who are distributed across multiple groups at Calico.

Position requirements: - PhD in Biology or related discipline, with an emphasis on genetics. - A publication record that reflects the successful application of quantitative genetics techniques to solve biological questions. - Either: - Direct experience analyzing human GWAS

data; OR... - Direct experience analyzing quantitative genetics data from non-human model organisms. - Some computer programming experience with an emphasis in data analysis, preferably in python and/or R. - Must be willing to work onsite at least three days per week

Calico requires all new hires to be fully vaccinated for COVID-19 prior to the first date of employment. As required by applicable law, Calico will consider requests for Reasonable Accommodations.

If interested, please submit your application via https://www.calicolabs.com/careers?gh_jid=6132160002 Shirin Frederich <sfrederich@calicolabs.com>

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Canberra PaidFieldAssist AvianEvolution

Job: CanberraAustralia.PaidFieldAssistant

Field assistant required for bird breeding season for 3.5 months (casual rate, Unimelb scale).

This is a great opportunity to gain valuable field skills, and experience in research and data collection. The focal species for these studies will primarily be superb fairy-wrens and yellow-rumped thornbills.

Field site: Campbell Park, located a 10-minute drive from the city centre in Canberra, Australia. Fieldwork has been conducted at this site for 20 years so data collected will contribute to a long-term dataset.

Details: The field assistant will be part of a small team of researchers and students, who will be in the field site some days. Most days will require independent data collection in the field and communication of findings. The assistant will be required to work 4 days per week, 5 hours per day in the field and must be physically fit as they will be required to walk around the park, sometimes 10km per day.

This is a paid casual position, and the rate will be appropriate for the qualification level of the candidate (using the University of Melbourne casual rate salary scale). Teamwork and communication skills are essential. The candidate must also be self-motivated, enthusiastic, reliable and have a good work ethic. Previous experience working with birds in the field or a degree in biology is desirable but not essential as we will provide training in the field methods required. In addition, previous bird

banding experience is an advantage but not mandatory.

Main field duties: Finding nests, monitoring breeding attempts and documenting group dynamics throughout the breeding season. The field assistant will be required to identify individuals by their colour band code using binoculars.

Precautions for Covid-19 can be practiced during this work as social distancing can easily be implemented. Applicants from Australia and New Zealand are preferred due to travel restrictions and airfares and visas cannot be paid for, as it is a paid position. Please check you are able to travel to Canberra (Australia) before applying.

The field assistant will be required from mid-October 2022 to the end of January 2023.

If you are interested or require more information, please email me at claire.taylor2@unimelb.edu.au explaining a little about yourself, including interests, a CV with any prior experience and referees.

Claire Taylor Post-doctoral Researcher, The University of Melbourne

Claire Taylor <claire.taylor2@unimelb.edu.au>

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CCharleston 1yr EvolutionaryNeuroscience

Evolutionary biologists with the qualifications in the ad below are welcome and encouraged to apply

NEUROSCIENCE VISITING ASSISTANT PROFESSOR: The Department of Biology at the College of Charleston invites applications for a one-year visiting assistant professor to begin August 2022. Candidates must have a Ph.D. in neuroscience or a related field and a strong commitment to teaching and research with undergraduate students. Primary responsibilities will be teaching and include courses in neuroscience, as well as comparative physiology, human anatomy and physiology or introductory biology. A typical visiting assistant professor semester teaching load is 12 contact hours per semester, with laboratories counting as 3 contact hours. The ability and interest in undergraduate students in an active research program is desired. We encourage applications from a variety of (dis)abilities, cultural, ethnic, race, sex, gender iden-

tity/expression, national origin, age, veteran status, color, religious, socio-economic, sexual orientation and belief backgrounds. The College of Charleston is an Affirmative Action, Equal Opportunity Employer and does not discriminate against any individual or group on the basis of gender, sexual orientation, gender identity or expression, age, race, color, religion, national origin, veteran status, genetic information, or disability. The College of Charleston, located in Charleston, SC, is a public liberal arts and sciences institution of 11,000 students with a commitment to excellence in teaching and research. Our interdisciplinary Neuroscience program, <https://neuroscienceminor.cofc.edu/>, primarily involves faculty from Biology, Psychology and Physics. The Medical University of South Carolina is located a few blocks from the main campus and offers the opportunity for research collaboration. Satellite College facilities include the 850+ acre Stono Preserve located 18 miles west of Charleston, SC and the Grice Marine Laboratory which is close to the downtown campus.

Information about the department is available at <http://biology.cofc.edu/>. Applicants should submit electronic (pdf) copies of a cover letter, curriculum vitae, statements of teaching and research interests, up to three relevant publications, and names and contact information for three colleagues capable of providing a recommendation to: <https://jobs.cofc.edu/postings/12197>. We encourage applicants to highlight their mentorship of under-represented groups in their cover letter and teaching statement. Questions regarding this position can be directed to Eric McElroy, search committee chair, at mcelroy@cofc.edu. This is a nine-month appointment for the 2022-2023 academic year; salary is competitive and commensurate with experience and qualifications. Review of applications will begin in May 2022 and will continue until the position is filled.

EEO Statement The College of Charleston is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group on the basis of gender, sexual orientation, gender identity or expression, age, race, color, religion, national origin, veteran status, genetic information, or disability. Quick-link for Posting <https://jobs.cofc.edu/postings/12197> "Murren, Courtney J" <MurrenC@cofc.edu>

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ClemsonU ResTech Drosophila Toxicogenomics

Research Technician Position at Clemson University

The Center for Human Genetics at Clemson University invites applications for a research technician position to participate in studies on toxicogenomics using the *Drosophila* model. This research program is part of the European Commission-funded PrecisionTox consortium, which encompasses collaboration between 15 institutions in Europe and the United States. This European-funded project seeks to identify biomarkers predictive of chemically induced adverse health effects in humans via the systematic use of distantly related animal species from across the tree of life.

This position requires a B.S. or M.S. degree in genetics or a related biological discipline. Previous experience with *Drosophila* is desirable but not required. The person in this position will have excellent verbal and written communication skills and the ability to work effectively as a member of a team.

The start date is ideally in the summer of 2022, but can be somewhat flexible. The duration of support is for three years, with a competitive salary and benefits.

Applications should be submitted via:

https://jobs.clemson.edu/psc/ps/JOBS/EXT/c/-HRS_HRAM_FL.HRS.CG.SEARCH_FL.GBL?Page=-HRS_APP_SCHJOB_FL&Action=U with reference to job number 106762, and include a curriculum vitae with the names and contact information of three references. For information, contact Dr. Robert R. H. Anholt (ranholt@clemson.edu).

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.

TRUDY F. C. MACKAY, PhD, FRS

SELF FAMILY ENDOWED CHAIR OF HUMAN GENETICS

DIRECTOR, CENTER FOR HUMAN GENETICS

PROFESSOR OF GENETICS AND BIOCHEMISTRY

Center for Human Genetics

Clemson University

110 Self Regional Hall

114 Gregor Mendel Circle

Greenwood, SC 29646

w 864-889-0522

c 919-604-6531

tmackay@clemson.edu

Trudy Frances Charlene Mackay
<tmackay@clemson.edu>

FlindersU EvolutionBehaviour

Lecturer in Animal Behaviour

https://flinders.wd3.myworkdayjobs.com/en-US/-flinders_employment/job/Bedford-Park/Lecturer-in-Animal-Behaviour_JR0000004526/apply

About Flinders Our bold vision, captured in our Strategic Plan: making a Difference: The 2025 Agenda, is to be internationally recognised as a world leader in research, an innovator in contemporary education, and the source of Australia's most enterprising graduates. To realise this ambition, we recently made a significant organisation change to a six College structure with a professional staff and services alignment. We recognise the key to our success is exceptional people and we're seeking an outstanding individual to join the team of our transformed university.

Locations: Bedford Park Time type: Full time Job requisition id: JR0000004526 Employment Type: Continuing Compensation Grade: Academic Level B Salary Range: \$99,827 - \$118,135 p.a. Reporting To: Dean, People and Resources (or Delegate) College of Science and Engineering

The Lecturer will, under routine to general supervision, contribute to quality research and/or evaluation endeavours and the planning and delivery of topics within the suite of undergraduate and/or postgraduate topics/courses in Natural Sciences (or related fields) in the College of Science and Engineering. This includes the development of teaching materials, delivery of lectures/tutorials or other innovative teaching and learning strategies, examinations and placement education. The

incumbent will also contribute to strengthening existing partnerships or exploring new partnerships with external stakeholders that have potential for providing improved teaching, learning and/or research outcomes for the University.

The incumbent will prioritise, coordinate, monitor workflow and provide informal day-to-day feedback to research support staff and casual academic teaching staff according to the University's policies, practices and standards.

Key Position Responsibilities The Lecturer in Animal Behaviour is accountable for: - Contributing to the organisation, planning, delivery, and evaluation of teaching within the suite of undergraduate and postgraduate topics/courses in Natural Sciences, through topic/course development, coordination, delivery of lectures, field courses and tutorials, laboratories, placements, or other contemporary teaching strategies. - Delivering inspiring and innovative teaching informed by approaches that enhance the student experience and support students with academic and/or other challenges impeding their academic progress. - Participating in and contributing to ethical, high quality, and innovative research through activities such as quality publications, external grant acquisition (including DECRA and/or Future Fellowships), and scholarship that builds and complements the College's areas of research strength in animal behaviour. - Delivering inspiring and innovative teaching informed by approaches that enhance the student experience and support students with their academic progress. - Actively participating in College internal and external quality assurance and accreditation processes. - Actively participating in high performing multi-disciplinary teams with an education and research focus and contribute to the development of a respectful, trusting and collaborative working environment. - Developing and maintaining strategic relationships and networks with a range of stakeholders including industry and professional associations and organisations. - Actively contribute to the integration and management of aspects of the academic and administrative life of the College. - Some out of hours work (including weekends) as well as rural SA, interstate and overseas travel, may be required. - Any other responsibilities in line with the level of the position as assigned by the Supervisor and/or the University.

Key Position Capabilities - Completion of a PhD in a relevant area. - Demonstrated evidence of, or capacity to, undertake high-quality teaching in a tertiary environment, including involvement in topic/course coordination and curriculum design. - Evidence of an independent contribution to the development, delivery and evaluation of innovative teaching and learning strategies. - Evidence of reflective practice. - Demon-

strated understanding of curriculum reviews. - Demonstrated understanding of the nexus between teaching and learning, research and scholarship - Experience in coordinating and/or leading the activities of other staff. - Demonstrated evidence of a strong research track record (for career stage) in an area of focus for the College, including evidence of quality publications and attraction of competitive grants and potential to conduct collaborative research with members of the

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NewMexicoStateU ResAssist ViralEvolution

The Hanley lab seeks a research assistant to work on our study of the evolutionary ecology of vesicular stomatitis virus (VSV). This research assistant will be responsible for collecting and identifying, using morphology and molecular barcoding, blackflies and other insect vectors of vesicular stomatitis virus in New Mexico and possibly also in Mexico. This person may also be responsible for screening insect vectors for VSV. This individual will also participate in general lab maintenance.

Candidates should have basic knowledge of molecular biology, especially PCR, and safety protocols and procedures inherent to working in a BSL2 laboratory.

Our project welcomes participants of all races, ethnicities, cultural identities, sexual orientations, and gender identities. Motivated, thoughtful, curious people with a deep-seated interest in infectious disease emergence are encouraged to apply.

Department of Biology, Research Asst, Inter Posting 2200410S located at <https://jobs.nmsu.edu/hr/postings/46334> . NMSU is an Equal Opportunity and affirmative action employer.

Kathryn Hanley <kathrynhanley@icloud.com>

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NorthCarolinaStateU GeneticsGenomicsCommunication

Communications Specialist Essential Job Duties

The Genetics and Genomics Academy (GGA) Communications Specialist will be responsible for implementing and maintaining the internal and external communications objectives of the GGA. Reporting to the Executive Director, the communications specialist will raise the visibility of the GGA, both within the university community and with external partners. The GGA communications specialist will help coordinate new campus collaborations, support intercollegiate cooperation, and facilitate efforts to enhance the understanding of Genetics and Genomics among citizens of North Carolina. Equity, diversity, accessibility and inclusion will be fundamental design-and-development principles of the GGA. The Communications Specialist will help attract and inform partners in many sectors of business, industry, government and non-government organizations.

The Communications Specialist will lead the GGA communication strategies as part of a team that includes students, faculty, staff and especially the GGA Programs Specialist, the Genetics and Genomics Scholars Program Director and the GGA undergraduate teaching faculty member. We will look to the Communications Specialist to develop creative approaches to sharing information about Genetics and Genomics at NC State, including email marketing, print, social/digital media, and especially video-based content.

Specific Responsibilities

- Building good working relationships with the GGA administrative specialist as well as GGA faculty, students, and staff
- Maintaining and updating GGA website and create other social media platforms and accounts (i.e. Twitter, Facebook, etc.)
- Developing creative videos to be used internally and externally
- Leading the writing of annual reports
- Organizing outreach and off-campus training events
- Publicizing campus seminars, retreats, symposia and workshops
- Publicizing courses for undergraduate students who

are not majoring in biological sciences

- Writing and disseminating news releases and feature articles describing technical events, publications, lectures, and related activities to local and national media groups
- Assisting faculty to improve individual webpages
- Networking with and serving as a representative of GGA at local and national meetings with a focus on Genetics and Genomics topics
- Responding to requests from news media representatives for information about Genetics and Genomics

Minimum Experience/Education Bachelor's degree and understanding of the basics of Genetics and Genomics or equivalent combination of training, knowledge and experience.

Other Required Qualifications

- Technical and administrative skills

Proficiency with Microsoft Word and Excel, or similar software

Proficiency with Gmail and Google applications

Experience with budgeting and expense tracking

Skill in developing metrics to measure growth, collect data, communicate results and adjust plans accordingly

- Specialized skills

Excellent video production skills

Ability to use Adobe or similar applications

Experience with WordPress for web design

Experience designing social media and video planning (in collaboration with graphic artists and videographers)

- General skills

Excellent written and oral communications skills, including proofreading

Strong interpersonal skills

Excellent organizational skills and ability to meet deadlines

Keen attention to detail

Ability to work independently and as a team player

Ability to multitask

Ability to interface with wide variety of staff, students, faculty and external partners

Creative problem solving

Skills and ability to maintain a positive and optimistic attitude and professional demeanor

Ability to welcome and encourage a diverse group of internal and external learners

Curiosity about Genetics and Genomics

- Physical skills

This position will involve attending events in person Preferred

- At least 1-3 years' experience in a similar office environment, preferably higher education or nonprofits.

- Experience in developing and implementing focused communications plans.

- Passion for enhancing knowledge about Genetics and Genomics among the public and among students, staff, and faculty at NC State.

Please send resume and cover letter to Fred.Gould@ncsu.edu

Fred Gould <fgould@ncsu.edu>

PennsylvaniaStateU ProjectManager MicrobiomeCenter

Research Project Manger | Pennsylvania State University Microbiome Center

JOB DESCRIPTION AND POSITION REQUIREMENTS:

The Microbiome Center (microbiome.psu.edu) at Pennsylvania State University's Huck Institutes of the Life Sciences seeks a highly motivated, organized, and creative Research Project Manager. The Research Project Manager will work with the Microbiome Center leadership and a diverse team of faculty, scientists, trainees, and administrators in developing and executing projects related to the microbiome sciences, with areas of expertise in evolution, ecology, genetics, environment, and agriculture. The Research Project Manager will manage scientific projects and meetings, write proposal applications and news releases in collaboration with faculty members, coordinate events and oversee education/outreach activities and general Center marketing, and manage budgetary, compliance and operational needs for the Microbiome Center.

Commencing formally in 2017, The Pennsylvania State University Microbiome Center aims to: (i) create an infrastructure that unifies the microbiome community around complex challenges, (ii) catalyze campus-wide

research, training, and teaching activities involving over 500 members, and (iii) deploy state-of-the-science technologies and methods that fundamentally advance microbiome science, therapy, education, art, and policy. By fostering a long-term relationship among diverse faculty, trainees, and staff across 10 colleges, the Center provides a world-class structure to expose and apply a microbial world astonishing in its universality and diversity. The Microbiome Center is part of the Huck Institutes of the Life Sciences that encompasses One home for the life sciences spanning 33 research institutes and centers, 12 core instrumentation facilities, and 7 advanced graduate programs. More information about the Center can be found at: <https://www.huck.psu.edu/institutes-and-centers/microbiome-center>. This is a full-time position with a competitive salary and benefits. The successful candidate will work in the Huck Institutes on the University Park main campus. Penn State is a top world-class and national research university home to 24 campuses that the Center serves. 18 disciplines are ranked in the top ten nationally for research expenditures, more than any other university.

Application link: https://psu.wd1.myworkdayjobs.com/en-US/PSU_Staff/job/-Research-Project-Manager-2---Huck-Institutes-of-the-Life-Sciences-Microbiome-Center_REQ_0000031176-1;
Informal inquiries are welcome to s.bordenstein@psu.edu

Duties and Responsibilities

- Manages Center scientific programs including pilot grant programs, research fellowships, workshops, symposia and seminar series, scheduling of internal/external meetings and visitors, and other communal events
- Leads the writing and preparation of Center-related reports, news, and grant applications in collaboration with the Center leadership
- Manages Center-related project budgets and procurements in collaboration with the Huck Institutes
- Manages compliance and regulatory duties
- Creates and oversees communication of Center outcomes to the public via website, social media, emails, and other promotional materials
- Oversee outreach activities, education, and art of Center-related projects
- Liaises with colleagues, trainees, and administrative staff
- Other duties as assigned

Qualifications

An advanced degree (Master's Degree required, PhD preferred) from an accredited institution, or equivalent experience in natural sciences, physical sciences, engineering, or a microbiome-related field, is necessary

- Two (2) plus years of related experience
- Excellent communication, interpersonal, and teamwork skills, demonstrated ability for communicating effectively with

various stakeholders is necessary

- Excellent time-management, organizational, analytical, and problem-solving skills is necessary
- Ability to exercise discretion, confidentiality, sound judgement, and attention to detail is necessary
- Self-motivated and able to work independently on multiple projects concurrently is necessary
- Consistent demonstration of initiative, able to rapidly adapt and respond to changes in environment and priorities is necessary
- Professional experience in running structured, multi-disciplinary programs and/or in research administration is preferred
- Knowledge of standard software packages is preferred

Commitment to Equity, Diversity, and Inclusion

At Penn State, diversity, inclusion, and equity are fundamental to the campus values and mission to support of all members of the Commonwealth and beyond. We assertively incorporate these values into



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SGN Frankfurt ScienceCoordinator

The Senckenberg Gesellschaft fuer Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (SBIK'F) explores the interactions between biodiversity, climate, and society.

The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) is an independent intergovernmental body, established by the member states of the United Nations in 2012. IPBES aims to strengthen the science-policy interface for biodiversity and ecosystem services for the conservation and sustainable use of biodiversity, long-term human well-being and sustainable development. The “technical support unit for knowledge and data” provides scientific, technical and organisational support to the activities and products of IPBES and is hosted by SGN in Frankfurt, Germany.

The Senckenberg Biodiversity and Climate Research Centre invites applications for a

Data Scientist / Science Coordinator (m/f/d)
(full time position)

The IPBES task force on knowledge and data is mandated to oversee and take part in the implementation of the “advanced work on knowledge and data” of the rolling work programme up to 2030, and act in accordance with relevant decisions by the IPBES Plenary and its subsidiary bodies. The task force and technical support unit is responsible for:

Supporting assessment experts on aspects relating to the data and knowledge management policy and the generation, management, handling and delivery of IPBES products, including access to and handling of a wide range of external datasets as well as the application of advanced data technology to support the assessment process Regularly revising IPBES data and knowledge management policy, and long-term vision on data and knowledge, as well as monitoring of the implementation of the IPBES data and knowledge management policy in work on all the objectives of IPBES; Supporting ongoing assessments to engage as appropriate with other entities, initiatives and service providers on data and knowledge, including but not limited to geospatial and Earth observations, socioeconomic datasets, participative observatories datasets, infographic and cartographic visualizations and web systems and services.

Expected tasks

Provide scientific and technical support to the work of IPBES in the activities defined by the task force on knowledge and data, and work closely with and report to the head of the technical support unit Schedule, communicate, and coordinate with experts, prepare meeting reports, presentations, and communication materials, and contribute to the development of guiding documents for data management at IPBES, including but not limited to the IPBES data and knowledge management policy. Support the ongoing assessments with the preparation and implementation of their data management reports Provide technical solutions for the improved access and maintenance of frequently used data resources in IPBES products and integration of a wide variety of primary data into dynamic assessments Contribute to developments of the pilots in the field of Natural Language Processing and Artificial Intelligence Prepare webinars, and e-learning materials focused on data management and the activities of the task force on knowledge and data Coordinate and provide technical support to the implementation of case studies on Natural Language Processing analysis of literary texts Work closely with the assessment experts, provide training and technical support to the documentation of their codes on development platforms, uploading to general-purpose

open-access repositories, and documenting the metadata of the IPBES products Travel nationally and overseas to represent the technical support unit for knowledge and data, or to run technical workshops for the assessment experts Contribute to the preparation of scientific publications and dissemination of the results at national and international conferences Qualifications

Doctoral or Master degree in computer science, information technology, natural resources, geoinformatics, or other disciplines at the science-policy interface, or relevant to data management, preferably with a focus on biodiversity and ecosystem services Experience in Open Source programming Experience in geospatial data handling and remote sensing products Proficient in written and spoken English and experience in the scientific report writing, reviewing and editing Ability to plan, organize and execute complex problems, and to work precisely and effectively under time constraints Outstanding social skills and capability to interact with and work in the international science community and in an international team Experience in web service development, programming web applications, and interoperable workflows would be an advantage

The offer

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SGN Frankfurt Team Leader Ocean Species Alliance

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

The Senckenberg Gesellschaft für Naturforschung, headquartered in Frankfurt am Main, is looking for the following person to join at the Frankfurt site starting after September 2022

Team Leader / Public Engagement Strategist (m/f/d) in the project Senckenberg Ocean Species Alliance (SOSA) (full time)

The Senckenberg Ocean Species Alliance (SOSA) project combines marine biodiversity research, species conservation, and science communication within one project. This interdisciplinary project is composed of three pillars, the Discovery Unit, Red Listing Unit and the Engagement Unit, whose tasks are tightly interlinked.

The Engagement Unit will be responsible for the public-facing aspects of this project and developing content to inspire fascination about marine biodiversity for diverse audiences. The SOSA website is already established and mainly managed by the SOSA Project Manager: <https://sosa.senckenberg.de/en/> Our aim with this aspect of SOSA is to inspire fascination and curiosity for marine biodiversity. You will develop new audiences, and curate SOSA's content in a way that captures attention for our key messages for marine biodiversity and conservation.

Your tasks:

Develop strategies to generate content jointly with the SOSA units, in collaboration with other Senckenberg teams, and bring our messages to a broad audience; Lead a science communication team (media officer, museum trainee and potential further members depending on project success, phase and direction) ' these positions will be recruited after you start and you will help shape their job descriptions; Work with designers to develop the branding (incl. logo) for the overall SOSA project; Identify "unique selling points" of SOSA, and collaborate with other SOSA units to set priorities for content creation; Identify other leaders in same space and approach relevant people or institutions to propose and develop collaborations; Develop Germany / Western / Global perspectives on engagement with marine content (biodiversity and conservation), and develop strategies on who can / should be reached; Understand the current and emerging channels of communication (video, radio, social media, website, apps, telepathy, etc.) for our goals, and plan content development accordingly; Be part of the SOSA management committee and have shared responsibility for the overall success of SOSA, and represent SOSA externally; Work collaboratively with other units of SOSA (conservation, species discovery), and across Senckenberg with other relevant teams (communication, fundraising, museum, etc.); Propose an initial (2 year) plan including metrics for performance evaluation and resource planning; Develop medium term (5-10 year) plan for SOSA confirmed life cycle; Develop a long-range sustainability plan including monetising content and/or recruiting additional donations in collaboration with the

Senckenberg fundraising unit

Your profile:

A university degree or equivalent experience in ONE of the relevant areas (or more) of science communication, social media, cultural studies, journalism, museum; Fluent in English and in German (spoken and written); An experienced and effective "translator" between science and media. You can understand detail-oriented scientific topics to find stories or topics that will generate excitement and fascination in the general public; An ability to solve problems and make independent decisions; An appreciation of complex public engagement matters and the necessary diplomacy, tact, and political awareness; Style of work: You have genuine curiosity and passion for nature, especially the oceans and their inhabitants. You are reliable, trustworthy, tolerant and flexible. You have a good ability to work independently, also under pressure and to set boundaries; Passion for the natural world and especially ocean species

What can you expect?

An interesting and challenging task in a dynamic and stimulating team of researchers, technicians and communicators; The opportunity to be at the forefront of a new movement with scientists, conservationists and science communicators dedicated to explore, protect and inspire awe for ocean biodiversity; Excellent benefits and work-life balance: Flexible working hours ' dual career service ' leave of absence due to family reasons ' parent-child-office ' annual special payment ' company pension scheme ' leave of 30 days/ year ' Senckenberg badge for free entry in museums in Frankfurt

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Stonehill College

The Biology Department at Stonehill College invites applicants for a visiting assistant professor appointment renewable for up to three years in organismal biology, evolution, and ecology to begin July 2022. This person would join a collegial department of fourteen full-time faculty with a wide range of disciplinary expertise and a commitment to continual growth as educators and mentors.

The position involves teaching undergraduates. Primary teaching duties include teaching courses in ecology, evolution, and an organismal course (botany, behavioral ecology, or other eukaryotic taxonomic group related to the candidate's disciplinary expertise). The candidate may also teach introductory biology lecture or lab.

Candidates must hold a Ph.D. or be ABD in biology, evolution, ecology, wildlife biology, or a related discipline. We are particularly interested in candidates who have experience teaching undergraduates.

Apply here: <https://jobs.stonehill.edu/postings/22675/>

Department and Search Chair: Bronwyn Bleakley, bbleakley@stonehill.edu ****NOTE**** I am at Evolution 2022 and would be thrilled to talk to anyone interested in the position.

“If you want to build a ship, don't drum up the [people] to gather wood, divide the work, and give orders. Instead, teach them to yearn for the vast and endless sea.” ~Antoine de Saint-Exupéry

Bronwyn H. Bleakley (she/her) Professor and Chairperson of Biology bbleakley@stonehill.edu
https://calendly.com/bronwyn_bleakley <https://www.smallcheerfulcreatures.org/>

“Bleakley, Bronwyn H.” <bbleakley@stonehill.edu>

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

UEdinburgh StatQuantGeneticist

Dear All,

We have an opened position for a quantitative/statistical geneticists to dissect the genetic basis of multi-morbidity. This is an exciting project that will require working closer with clinicians, AI experts and geneticists. Please, feel free to contact me to discuss the post.

We would also support those that would like to use this opportunity to develop fellowship applications with a view to develop an independent research area.

The details of the post can be found in the link below.

View the external job posting < <https://elxw.fa.em3.oraclecloud.com/443/hcmUI/-CandidateExperience/en/job/1897> >

Best wishes,

Albert

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh'Àn Àideann, clàraichte an Alba, àireamh clàraidh SC005336.

TENESA Albert <Albert.Tenesa@ed.ac.uk>

UGeorgia SREL OutreachEducation

The required scientific background for this position is open. Evolutionary biologists with experience in outreach and education are encouraged to apply.

ASSISTANT DIRECTOR: Outreach and Education Programs University of Georgia's Savannah River Ecology Laboratory

The University of Georgia's Savannah River Ecology Laboratory (SREL) invites applications for a non-tenure track, fiscal-year (12-month) position as Assistant Director for Outreach and Education Programs. The successful applicant will be located at the SREL in Aiken, S.C. and will report to the Director of the SREL. This position will be 0.70 EFT in administration and 0.30 EFT in outreach. The successful candidate will support the SREL Director in a variety of administrative duties, including: Oversight of SREL's science-based outreach and public relations program, including supervision of staff, budget development, creation and evaluation of content, coordination of programmatic activities with UGA, state, and/or federal guidelines, and strategic planning; Coordination of SREL's undergraduate experiential learning and graduate research programs, including supervision of support staff, budget development, facilitation of faculty led education programs, engagement of collaborating universities, federal, and/or state partners, and strategic planning; Provision of administrative oversight to ensure compliance of all SREL outreach and education programs with all applicable university, federal, and/or state requirements. Applicants must have a MS degree or terminal degree in an appropriate field (ecological or environmental sciences) and three years of experience in administration of outreach and/or education programs or similar activities. Applicant must have graduated from an accredited college or university with major course work in any area of Ecology, Environmental Sciences, or similar disciplines and have considerable background in coordination of outreach, education, or extension programs. Previous evidence of supervisory duties required and experience with grant

writing desired. Review of complete applications will begin on July 10, 2022 and continue until the position is filled. For further information on the position and to apply, please visit <https://www.uga.jobsearch.com/-postings/search> and search for Job Posting S08544P.

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu). Please do not contact the department or search committee with such requests.

Stacey Lance <lancestacey@gmail.com>

UGothenburg BotanySystematics

Gothenburg.Professor.BotanySystematicsTaxonomyPlantGeography
Scientific Leader of Herbarium GB at the University of Gothenburg and Gothenburg Botanical Garden

The position is as a professor of botany with a profile that includes taxonomy, systematics and plant geography.

The tasks include developing collaboration between the University of Gothenburg and the Gothenburg Botanical Garden, developing the roles of the activities in the mapping of botanical diversity, communicating the importance of herbaria and botanical gardens for conservation and sustainable use of biodiversity to the general public, authorities, decision-makers and media, and to broaden research activities based on the amount of information that the collections and their metadata constitute. The duties include:

- Conduct research and the scientific activities in general that are needed to maintain and develop the Gothenburg Botanical Garden and Herbarium GB at the University of Gothenburg as nationally and internationally strong institutions.
- Lead and initiate various projects where digital accessibility is in focus so that the collections constitute a knowledge resource for researchers, the general public and stakeholders in society.
- Actively apply for research grants, lead research groups,

and supervise and examine doctoral students.

- Teach at basic and advanced level at the University of Gothenburg.
- Contribute to the availability of sufficient botanical expertise at the Herbarium and Botanical Garden and to the quality of scientific activities.
- Contribute to the plant collections at Herbarium GB and the Gothenburg Botanical Garden meeting the current needs of research and society and constitute a resource for future needs.
- Collaborate and create good relations with national and international actors such as natural history museums and research institutions, especially in the field of botany, and inform about research and development work nationally and internationally.

Furthermore, you are expected to participate in the university's and the botanical garden's activities and collaborate with the surrounding community, both in collaborative projects and in popular science activities.

You who do not have a university pedagogical education must undergo such within two years of admission to the employment. The university offers higher education pedagogical courses.

Gothenburg. You should be able to teach in Swedish within two years. The university offers courses in Swedish.

Application Deadline: September 30th, 2022

For more details about the position see: https://web103.reachmee.com/ext/I005/-1035/job?site=7&lang=UK&validator=-9b89bead79bb7258ad55c8d75228e5b7&job_id=26009
Kent Kainulainen <kent.kainulainen@vgregion.se>

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UGuelph OutreachCoordinator Biodiversity

The Hajibabaei Lab at the University of Guelph & Centre for Biodiversity Genomics is looking for a congenial and highly organized person to join the STREAM project. This full-time contract position is initially available for 1 year with the possibility for renewal and would entail the coordination of field work sampling, outreach including social media, writing, and presentations to engage new and existing stakeholders. Requirements

include a minimum BSc degree with 2 years of relevant experience in biology/ecology/related science, field work, and/or science communication. An interest in Indigenous culture and science communication is a must.

The STREAM project is a Canada-wide project that is 'Sequencing The Rivers for Environmental Assessment and Monitoring'. In collaboration with Environment and Climate Change Canada and non-governmental organizations, we are implementing a new paradigm in ecosystem assessment to improve the health of Canada's threatened watersheds <https://stream-dna.com/>. The Hajibabaei lab conducts cutting edge research in the fields of biodiversity, genomics, and environmental sciences. Our diverse team brings together specialists in molecular biology, bioinformatics, and ecology.

At the University of Guelph, fostering a culture of inclusion is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution. The University of Guelph resides on the treaty lands and territory of the Mississaugas of the Credit. We recognize that today this gathering place is home to many First Nations, Inuit and Métis peoples and acknowledging them reminds us of our collective responsibility to the land where we learn and work.

Please send your CV and cover letter to Dr. Mehrdad Hajibabaei (mhajibab[at]uoguelph[dot]ca) with "STREAM Field, Outreach, and Communications Coordinator" in the subject line.

Terri Porter <terrimporter@gmail.com>

UMinnesota Curator PlantDiversityEvolution

Curator, Conservatory & Botanical Collection, University of Minnesota (<https://bit.ly/3adWrEc>)

We are recruiting an outstanding plant evolutionary biologist to serve as Curator of the Conservatory & Botanical Collection (cbs.umn.edu/conservatory) at the University of Minnesota (College of Biological Sciences). The worldwide collection is the most diverse in the Upper Midwest, including over 1800 plant species. Living collections are housed in a new facility constructed in 2019 (10k sq ft) including four biome rooms with large in-ground plantings. The conservatory plays an

essential role in supporting courses, faculty research, and public outreach. We are particularly interested in recruiting candidates with a Ph.D. (or Masters with relevant experience) in evolutionary biology, plant biology, botany, ecology, horticulture, or related fields with a strong expertise and interest in plant diversity. The ideal candidate has experience with collections and management, but we strongly encourage all interested persons to apply.

Advertisement with photos of the Conservatory can be found here (<https://bit.ly/3adWrEc>).

The role of curator requires an individual who is energetic and professional with excellent managerial, organizational, and communication skills. The primary responsibilities will be to curate the conservatory collections, support course instruction, oversee greenhouse operations, and manage staff and volunteers. This position offers exciting opportunities to engage with teaching, research, and outreach. The curator will have opportunities to work with faculty to reimagine the mission of the conservatory and develop their own research and outreach programs.

Applicants should submit the following items as part of their application: 1. Cover letter describing the candidate's interest and qualifications for the position 2. Curriculum vitae 3. Names and contact information for three references, including a description of the relationship to the applicant

Review of complete applications will begin on July 14, 2022 and continue until the position is filled. A complete position description can be accessed via the following human resources website: (<https://-humanresources.umn.edu/jobs>; Search Job ID 348394). Application materials should be uploaded through this human resources website. Contact the chair of the search committee if you have questions about the position. (Search committee chair: David Moeller: moeller@umn.edu).

The University of Minnesota has a large and dynamic community of biologists conducting diverse, cutting-edge research and developing innovative courses. Our campuses have extensive facilities for research and teaching across the state. The Twin Cities of Minneapolis and St. Paul offer excellent quality of life, consistently ranking among the most liveable, well educated, and healthy cities.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation,

gender identity, or gender expression. The University supports the work-life balance of its faculty and staff and especially encourages applications from women and members of under-represented groups.

David Moeller moeller@umn.edu

UMississippi 1yr ResAssoc EvolutionGeneticsEcol

The Zee lab (<https://peterzee.wordpress.com/>) and Garrick lab (www.rcgarrick.org) in the Department of Biology at the University of Mississippi are seeking applications for a Research Associate. As a collaborative dual appointment, the Research Associate will be involved in diverse ecological, evolutionary, and/or genetic research, and will have the opportunity to contribute to many aspects of the publication process.

Job Responsibilities: Molecular laboratory techniques (e.g., DNA extraction, PCR, genotyping); Microbiology laboratory techniques (e.g., sterile technique, media preparation); Database and/or specimen curation and management; Maintain inventory of lab supplies; Order consumables and oversee lab equipment maintenance; and Assist with training undergraduate independent study research students.

Essential Qualifications: Well-developed written and oral communication skills; A working vocabulary of principles of / tools for studying evolution, genetics, and ecology; Strong molecular or microbiology laboratory bench skills; Demonstrated ability to work independently, and as part of a team; Excellent organizational and record-keeping skills, with attention to detail; and Demonstrated ability to work on multiple assignments with overlapping deadlines.

The start date is anticipated to be August 2022, but is flexible. The position is full time (40 hours per week) for up to 12 months (renewal is contingent on availability of funds), and is eligible for benefits. Salary is dependent on experience. A MS/PhD is preferable but not required.

Application materials include a cover letter describing your interest in the position and qualifications, a CV, and the names and contact information for at least two references. Questions or inquiries should be sent to Dr. Ryan Garrick (email: rgarrick@olemiss.edu) and Dr. Peter Zee (zee@olemiss.edu).

Applications will be reviewed upon receipt

and the position will remain open until filled. The University of Mississippi is and /AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/ADA/ADEA employer.

Ryan Garrick Department of Biology 508 Shoemaker Hall University of Mississippi University, MS 38677-1848, USA

webpage: <http://www.rcgarrick.org> Ryan Christian Garrick <rgarrick@olemiss.edu>

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UMontpellier GenomicsPlantAdaptation

Chaire Professeur Junior “Geneadapt” The University of Montpellier and the Research Unit “Diversity, adaptation and development of tropical and Mediterranean plants” <http://diade.ird.fr/> propose a position of “Chaire Professor Junior” to develop a research in Genomics of plant adaptation to climate changes (GENEADAPT).

This call for applications is open to young researchers having a PhD and postdoctoral valorized experience and the capacity to lead a research team at the highest scientific level. The position is open for 5 year before defending a tenure position as Professor at the University of Montpellier. The recruited scientist will have the status and the salary of a temporary professor of University of Montpellier and he will beneficiate of a financial support of 200k euro to develop his/her research activity.

The University of Montpellier and the new University of Excellence project (I-Site MUSE), promote research on three main topics: Health, Environment and Agriculture. Research developed in the laboratory (UMR DIADE) aim to answer to major issues: adaptation to global warming, developing solutions for a more sustainable diet, managing biodiversity and more sustainable farming practices. The research unit work mainly on tropical plants, where these issues are particularly acute. The objective of this chair is to develop cutting-edge research in understanding the adaptation of plant species to climate change (temperature, rainfall, CO₂, extreme climatic events) through genomic approaches. Genomics has revolutionized the ability to ask these questions by

providing access to genetic and structural variations in often complex genomes. The project will address two main questions: 1) the role of structural variations in the adaptation of plants, in particular to climate variations, 2) understanding the links between structural variations of genomes and the development of phenotypes, and their relationship to environmental variations.

Contact Expressions of interest and questions should be sent to yves.vigouroux@ird.fr and pascal.gantet@umontpellier.fr

“yves.vigouroux@ird.fr” <yves.vigouroux@ird.fr>

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Uppsala Fellowship EvolutionaryBiology

This is on a very short notice (deadline for applications is July 1, 2022)

Call for Applications

Fellowships, 2023-24 The Natural Sciences Programme

Located in the Botanic Garden in Uppsala, the Swedish Collegium for Advanced Study (SCAS) is a national institute for advanced study. The collections of Carolina Rediviva Library and other scientific facilities at Uppsala University are situated nearby.

For the academic year 2023-24 the Collegium offers residential fellowships for senior and early-career scholars from all countries. The fellowships afford scholars the opportunity to concentrate on their own research interests. Fellows are expected to be in residence and to participate in academic events beyond their own fields of specialization.

The Natural Sciences Programme aims at advancing cutting-edge research in the natural sciences, as well as at bridging the gap between these and the humanities and social sciences. The focus of the programme is on research that involves synthesis, data analysis and conceptual and theoretical work. There are four thematic foci of the programme, namely 1) Theoretical Biology; 2) Human Brains and Societies; 3) Measurable Man; and 4) Exoplanets and Biological Activity on Other Worlds.

At the time of application, the candidate must have held a PhD (or equivalent degree) for at least three years.

Candidates should have a track record of significant and original research achievements, and be active at the international forefront of his/her research field.

The holder of a fellowship receives a monthly salary. Accommodation for Fellows who do not live in the Stockholm-Uppsala region is arranged by the Collegium and all Fellows have their own fully equipped office at the Collegium.

For full details about the programme, the eligibility criteria and how to apply, please see:

www.swedishcollegium.se

Claus Rueffler

(claus.rueffler@ebc.uu.se)

Page Title

N??r du har kontakt med oss p?? Uppsala universitet med e-post s?? inneb??r det att vi behandlar dina personuppgifter. F??r att l??sa mer om hur vi g??r det kan du l??sa h??r: <http://www.uu.se/om-uu/-dataskydd-personuppgifter/> E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: <http://www.uu.se/en/about-uu/data-protection-policy> Claus Rueffler <claus.rueffler@ebc.uu.se>

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UppsalaU Three BioinformaticsGenomics

Dear all,

NBIS (National Bioinformatics Infrastructure Sweden) now has three bioinformatician positions available, all with application deadline August 15. All three positions are permanent, all placed at Uppsala University in Sweden. NBIS is built up of 120 highly talented bioinformaticians, system developers, and data stewards, all working to support Swedish researchers. We also have a strong international component with a lot of collaboration in European projects, not the least through ELIXIR where NBIS also constitutes the Swedish node (ELIXIR-SE) . We are now in an expansive phase and need to strengthen in particular our support teams. NBIS is a great place to learn and grow as a bioinformatician, with hundreds of exciting projects every year and a lot of support available from highly talented colleagues, and we are now hoping to add even more talent to our teams!

1-2 positions focus on genome assembly, in Swedish

projects or in international projects in the European Reference Genome Atlas (ERGA) consortium. 1 position focuses on evolutionary and comparative genomic analyses on large genomes. Please note that these are not post doc positions, they are permanent staff scientist positions with the main responsibility to support research or infrastructure projects.

Please see below for more information and how to apply. Note that we do not accept applications via email, please use the links provided in the webpages linked below:

1-2 positions in genome assembly: <https://www.uu.se/en/about-uu/join-us/details/?positionId=518948> 1 position in evolutionary genomics: <https://www.uu.se/en/about-uu/join-us/details/?positionId=518909> Please see contact details in the advertisements if you have any questions about the positions.

Kind regards, Henrik

Henrik Lantz Support manager, NBIS Uppsala, Sweden

Nið ½r du har kontakt med oss þið ½ Uppsala universitet með e-post sið ½r innþið ½r det att vi behandlar dina personuppgifter. Fið ½r att lið ½sa mer om hur vi gið ½r det kan du lið ½sa hið ½r: <http://www.uu.se/om-uu/dataskydd-personuppgifter/> E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: <http://www.uu.se/en/about-uu/data-protection-policy> Henrik Lantz <henrik.lantz@imbim.uu.se>

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URichmond EvolutionaryGeneticsLabManager

The Erickson lab (www.ericksonlab.net) in the Department of Biology at the University of Richmond seeks to hire a full-time postbaccalaureate lab manager as part of an NIH-funded project to study rapid adaptation in an introduced species of insect, the African Fig Fly (*Zaprionus indianus*). The project (<https://reporter.nih.gov/search/HPtOEc6H5U2iYcFfAYTFpw/project-details/-10438436>) aims to characterize genetic and phenotypic evolution across North American populations following introduction to new environments. The work will integrate field studies, next generation sequencing, population genetics, and laboratory studies of ecologically

relevant traits. The position will consist of roughly 75% research functions (field collections, laboratory experiments to measure fitness-related phenotypes, data analysis, bioinformatic analysis) and 25% lab manager duties (maintaining fly stocks, making fly food, ordering, and other routine lab maintenance). The position will require traveling to orchards in Virginia and out-of-state to conduct field collections of wild fruit flies; applicants should be comfortable working outdoors as well as in the lab. The anticipated start date is as soon as possible, possibly before the end of July, but later dates are also possible. A BS/BA in Biology or a related science, previous research experience (which may include field work, lab work and/or bioinformatics), interest in evolutionary genetics, strong communication skills, excellent organization skills, a willingness to work with undergraduate researchers and a pleasant attitude are all requirements. Experience with *Drosophila** husbandry and/or working with next generation sequencing data is favorable but not required. The position includes university benefits including health insurance. While a small amount of remote work may be possible, this position will generally require full-time work on campus at UR. This position is ideal for a candidate looking to gain more research experience before applying to a graduate program. The position has the possibility to be renewed for up to three years.

Both the Erickson Lab and Department of Biology value diversity, and the lab is a welcoming and inclusive place to work. We encourage applications from those who identify with groups historically underrepresented in STEM.

Interested candidates should send a cover letter outlining their qualifications and interest in the position and a CV/resume to [perickso\[at\]richmond\[dot\]jedu](mailto:perickso[at]richmond[dot]jedu) with the subject line "Postbac Application". Review of applications will begin 6/27/2022. Address any questions to Dr. Erickson at the email above.

Priscilla Erickson <priscilla.erickson@gmail.com>

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VanderbiltU EvolutionaryMicrobiologist

The Department of Biological Sciences at Vanderbilt University invites applications for a non-tenure-track faculty position in microbiology at the Senior Lecturer rank, to start January 1, 2023. Candidates should have a Ph.D. in Microbiology or a related discipline (awarded no later than January 1, 2023) and a strong commitment to undergraduate education. The successful candidate will design and teach a microbiology laboratory course, contribute to a microbiology lecture course, and provide additional instructional support for the department (<https://as.vanderbilt.edu/biological-sciences/>). Vanderbilt University has a strong institutional commitment to fostering excellence through an academically and culturally diverse community of scholars. Therefore, the ideal candidate will demonstrate a commitment to equity, diversity, and inclusion in teaching, mentoring, and service. Members of ethnically and racially marginalized groups, women, individuals with disabilities, and members of other underserved groups are encouraged to apply. Initial appointment will be for three years with the possibility of renewal contingent upon institutional need and review.

The Department of Biological Sciences, housed within the College of Arts and Science, is a community of tenure track and lecture track faculty with a strong commitment to excellence in teaching and research at all levels of biological organization. The successful applicant will have an opportunity to teach and mentor a growing number of undergraduate students with interests in health-related fields, veterinary medicine, and environmental sciences. Strong collaborative and cross-disciplinary interactions are enhanced by the close physical proximity of the School of Medicine, located literally steps away from the Department of Biological Sciences. Vanderbilt University is a private research university ranked in the top 14 nationally; its 330-acre park-like campus is located on the western edge of downtown Nashville, TN, known colloquially as Music City and consistently rated as one of the best cities in the US in which to live and work.

Applicants should submit: (a) a curriculum vitae, (b) a statement of teaching philosophy that includes plans/ideas/goals for designing and developing a microbiology lab course, (c) teaching evaluations, if avail-

able, and (d) a statement addressing past and/or potential contributions to diversity through research, teaching, mentoring and/or service directly to <http://apply.interfolio.com/108446>. Please include a cover letter with the names of three references; second-round candidates will be asked to submit three letters of recommendation via the Interfolio portal. Screening of applications will begin immediately.

Vanderbilt is an Equal Opportunity/ Affirmative Action employer.

For questions regarding the position, please contact Kathy Friedman (Katherine.friedman@vanderbilt.edu).

Stephanie Shelvik Administrative Specialist, Biological Sciences College of Arts and Science| Vanderbilt University

615-343-6381|stephanie.shelvik@vanderbilt.edu

“Shelvik, Stephanie” <stephanie.shelvik@Vanderbilt.Edu>

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VanderbiltU ResAssist Genomics

Overview

An RA II position is available in the Lea lab (<http://lea-lab.org/>), which is housed within the Department of Biological Sciences at Vanderbilt University. Research in the Lea lab sits at the intersection of evolutionary biology, genomics, and human health research. Our work focuses on the gene regulatory mechanisms that connect socioecological variation with health. Most of this work is conducted with human populations in Kenya and Malaysia, but some projects focus on model systems such as immortalized human cell lines and non-human primates.

The RA II's duties will include the performance of basic molecular biology laboratory techniques, such as DNA and RNA sample extraction, library preparation for high-throughput sequencing, cell culture, transfection, and transformation. The RA II will also be responsible for overseeing day-to-day logistics in the wet lab, including purchasing, sample, supply organization, shipping, and receiving. More specifically, the individual will ensure that the laboratory has adequate supplies and properly maintained equipment, they will be in charge of communicating laboratory protocols, policies, and safety guidelines to other lab members, and they

will work closely with trainees to provide support for ongoing research projects.

The position is full-time and is a term position, with renewal contingent on funding and performance.

The Department of Biological Sciences has an excellent staff to facilitate issue resolution involving personnel, financial management, supply and equipment orders proposal submission, and infrastructure. The faculty in the department carry out diverse research projects and often collaborate with other members within the department and in nearby departments. This department covers a broad spectrum of biology, from molecules and cells to tissues and organisms to populations and ecosystems. Award-winning faculty and graduate students teach and carry out research in Biochemistry, Structural Biology and Biophysics, Cell Biology, Genetics, Molecular Biology, Computational Biology, Evolutionary Biology, Ecology, Developmental Biology, and Neurobiology.

Apply here: <http://tinyurl.com/jbkkvjdw> Duties and Responsibilities

Generate genomic datasets - Extract DNA and RNA from biological samples - Generate and QC libraries for high throughput sequencing (e.g., RNA-seq, DNA-seq, RRBS, or ATAC-seq libraries) - Assist with ongoing projects in the lab using massively parallel reporter assays; these protocols require mammalian cell culture, transformation, and transfection - Maintain a detailed lab notebook

Organization - Maintain a detailed and up to date database of laboratory protocols - Maintain a detailed and up to date database of supply ordering - Maintain a detailed and up to date database of biological sample storage and oversee biological sample organization - Assist other lab members with finding, using, and returning archived biological samples to freezers

Daily lab operations - Assist in collaborative efforts with other team members, laboratories, and/or institutions; train grad students, postdocs, and undergraduate trainees on specific protocols as needed - Oversee daily operations with respect to equipment maintenance, ordering, and supplies, safety procedures, and training - Troubleshoot equipment and maintain as needed according to manufacturer and university guidelines - Evaluate, negotiate, and purchase standard supplies and equipment - Perform light administrative duties when asked, for example helping with permits, data, and file management, or paperwork related to projects in the lab - Other duties as assigned

Qualifications

- A Bachelor's degree in biology, genetics, or a related

field from an accredited institution of higher education (required) - A minimum of 1 year of laboratory technician or other laboratory work experience (required) - Comfortable with Microsoft Office, Google Drive apps, and other word processing or spreadsheet applications (required) - Comfortable with learning new applications for organizing samples, orders, etc. (required) - Extreme attention to detail and organizational abilities (required) - Ability to function independently as well as part of a team (required) - Ability to maintain a detailed lab notebook (required) - Knowledge of basic aseptic technique and molecular techniques (e.g., PCR, cloning, gel electrophoresis, DNA/RNA extractions) (required) - Experience in a genomics or molecular biology laboratory (required) - Experience with tissue culture (preferred) - Experience with high-throughput sequencing library preparation (preferred) Supervisory Relationships

Commitment to Equity, Diversity, and Inclusion

At Vanderbilt University, we are intentional about and assume accountability for fostering advancement and respect for equity, diversity, and inclusion for all students, faculty, and staff. Our commitment to

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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>

ZhejiangU Evolution

Title: ZhejiangU.TenureTrack.Evolution

The Evolutionary & Organismal Biology Research Center at Zhejiang University in Hangzhou, China, invites applications from evolutionary scientists for All ranks, Assistant or Associate, Full-Professor. Applications from both Chinese and non-Chinese nationals are all welcomed and will be evaluated on experience and qualifications on an equal opportunity basis. Successful candidates must hold a Ph.D., M.D., or equivalent degree and have demonstrated the potential to establish a vibrant independent research program.

The EOBR is a brand-new institute in China with a research focus on evolution. The center is hosted by the School of Medicine and receives strong support from the university and Zhejiang Province. The research disciplines in the center include but are not

limited to, evolutionary developmental biology, evolutionary genomics, evolutionary medicine, experimental evolution, bioinformatics and population genetics. Each faculty member will receive an internationally competitive salary and start-up package that includes long-term and sufficient research funds, ample laboratory space, excellent equipment, and research support. The center already hosts several PIs in the fields of evolutionary genomics, computational biology and evolutionary developmental biology. We offer - State-of-the-art research space - A workplace that values diversity and promotes junior researchers - A young and internationally recognized, vibrant, and collaborative research environment - Highly-motivated student pool - The cutting-edge genomic and molecular biology facilities - International collaboration network

Qualifications: - A very good doctorate (Ph.D/M.D) in the relevant research areas; - A visible publication track record reflecting your scientific excellence and research focus; - A convincing research concept and plan; - A team player mentality, good communication skills, and the ability to successfully lead diverse international teams.

Responsibilities: - Building an innovative team; - Personal advancement skills to secure the external funding; - Enthusiasm in teaching and nursing the next generation of evolutionary biologists; - Engagement in the academic self-administration of the center; - Establishing cross-disciplinary research programs in collaboration with researchers from other fields. Application Instructions: - Letter of motivation with a clear statement of why the center as a research location is interesting for you & where your career should take you; - Curriculum vitae; - List of publications; - Copies of the certificates; - Research concept including graphical abstract (max. 2 pages); - References (max. 3). Contact: Prof. Guojie Zhang guojiezhang@zju.edu.cn <http://zhanggjlab.org/> Qi Zhou, PhD, Professor at Life Science Institute Zhejiang University & ERC Group Leader Dept. of Neuroscience and Developmental Biology University of Vienna <https://neurodevbio.univie.ac.at/> <http://qizhoulab.org/> Zhou Qi <zhouqi1982@zju.edu.cn>

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Biodiversity CallForProposals

The French Foundation for Biodiversity Research launched 2 calls for proposals on biodiversity. Don't hesitate sharing them with your network if relevant.

* CALL FOR PROPOSALS FRB-CESAB / LabEX TULIP / PNDB / BiodivOc - DATASHARE 2022

The aim of this DATASHARE is to accelerate the sharing of open-access and large scale 'novel' biodiversity related datasets. This call complements classical bio-

diversity synthesis calls, which aim at fostering the analysis of existing data and the synthesis of ideas and concepts, with a specific focus on data compilation and sharing. For its first 2022 edition, the DATASHARE joint call will fund two 2-years projects.

Deadline: 22 sept 2022 More information: <https://www.fondationbiodiversite.fr/en/calls/appel-a-projets-datashare-2022/> [Call for proposals DATASHARE 2022] - Fondation pour la recherche sur la biodiversité The aim of this DATASHARE joint call is to accelerate the sharing of open-access and large scale 'novel' biodiversity related datasets. This call complements classical biodiversity synthesis calls, which aim at fostering the analysis of existing data and the synthesis of ideas and

concepts, with a specific focus on data compilation and sharing. It can [Å] www.fondationbiodiversite.fr ÅÅ'

* CALL FOR PROPOSALS FRB-MTE-OFB 2022 - Impacts on terrestrial biodiversity in the Anthropocene

The call aims to characterize the positive, negative or non-existent impacts of human activities and induced pressures on the state and dynamics of terrestrial biodiversity. The results of the research funded by the programme should help to strengthen the actions of society as a whole, to halt the decline of biodiversity and promote sustainable human development. this call for proposals will allow the funding of:

* 3 data SYNTHESIS CESAB projects of three years' these projects should develop syntheses of ideas and/or concepts, analyses of existing data, and should focus on factors affecting the state, evolution and dynamics of biodiversity. * 4 to 6 one-year SYNERGY projects' these projects should provide complementary answers to a question that emerges from a research project that has been finalized or is underway, and should help stakeholders with indicators and practices to be promoted or abandoned to preserve biodiversity. * 1 to 2 SYSTEMATIC REVIEW projects of two years' these projects must present an inventory of human practices that have an impact on biodiversity and a summary of the state of knowledge on the impacts considered.

Deadline: 22 sept 2022 More information: <https://www.fondationbiodiversite.fr/en/calls/appele-projets-frb-mte-ofb-2022-impacts-sur-la-biodiversite-terrestre-dans-lanthropocene/> [Call for proposals FRB-MTE-OFB 2022] Impacts on terrestrial biodiversity in the Anthropocene - Fondation pour la recherche sur la biodiversité Opening 7th June 2022 [Call for proposals FRB-MTE-OFB 2022] Impacts on terrestrial biodiversity in the Anthropocene. Biodiversity is declining at an increasingly alarming rate and human activities, directly and indirectly, synergistically or antagonistically, are influencing this decline which must be halted. www.fondationbiodiversite.fr ÅÅ'

Marie-Claire Danner

SCIENCE OFFICER

IPBES TSU FOR THE ASSESSMENT OF SUSTAINABLE USE OF WILD SPECIES

CHARGÉ DE COMMUNICATION

CESAB (CENTRE DE SYNTHÈSE ET D'ANALYSE SUR LA BIODIVERSITÉ)

+33 (0)6 71 66 46 58

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Marie-Claire

DANNER

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claire.danner@fondationbiodiversite.fr>

MolEcolPrize Nominations Jun06 DeadlineReminder

Nominations for the Molecular Ecology Prize: June 6th deadline approaching!

The field of molecular ecology is young and inherently interdisciplinary. As a consequence, research in molecular ecology is not currently represented by a single scientific society, so there is no body that actively promotes the discipline or recognizes its pioneers. The editorial board of the journal *Molecular Ecology* therefore created the Molecular Ecology Prize in order to fill this void, and recognize significant contributions to this area of research. The prize selection committee is independent of the journal and its editorial board.

The prize will go to an outstanding scientist who has made significant contributions to molecular ecology. These contributions would mostly be scientific, but the door is open for other kinds of contributions that were crucial to the development of the field. The previous winners are: Godfrey Hewitt, John Avise, Pierre Taberlet, Harry Smith, Terry Burke, Josephine Pemberton, Deborah Charlesworth, Craig Moritz, Laurent Excoffier, Johanna Schmitt, Fred Allendorf, Louis Bernatchez, Nancy Moran, Robin Waples, Scott Edwards, Victoria Sork, and Fuwen Wei.

Please send your nomination with a short supporting statement (no more than 250 words (longer submissions will not be accepted) and the candidate's CV directly to Anne Yoder (anne.yoder@duke.edu) by Monday, June 6, 2022. Organized campaigns to submit multiple nominations for the same person are not necessary and can be counterproductive. Also, note that nominations from previous years do not roll over.

With thanks on behalf of the Molecular Ecology Prize Selection Committee

anne.yoder@duke.edu

OutreachMaterial EvolutionInTheAegean

Dear Community,

Recently, we have put together 3 games for primary and secondary school students about the

“Aegean Archipelago: a living laboratory of evolutionary biology”

including a phylogenetic placement web game.

The entire material is available here

<https://cme.h-its.org/exelixis/outreach.html> and we have carried out pilot demos in 3 schools in Crete that worked pretty well I believe.

The material is available in Greek and English and we would greatly appreciate it if you wanted to contribute to the dissemination of this material in the English (and Greek) speaking world.

If you are interested in translating the material into another language please send me an email.

Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Affiliated Scientist, Evolutionary Genetics and Paleogenomics (EGP) lab, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas

www.exelixis-lab.org alexandros.stamatakis@gmail.com

SMBE AwardWinners

Award announcements and SMBE Everywhere registration reminder

Faculty Award winners and the finalists for the Graduate Student Excellence Award

Dear SMBE Members,

SMBE is pleased to announce the Faculty Award winners and the finalists for the Graduate Student Excellence Award .

All Awardees and finalists will be giving talks at SMBE Everywhere’s first Global Symposium on July 11.

HERE .

We hope you are excited to attend, and we will see you there!

Faculty Excellence Award Winners

SMBE Early Career Excellence Award- Molly Schumer , Stanford University SMBE Mid Career Excellence Award- Philipp Messer , Cornell University SMBE Lifetime Achievement Award - Charles Aquadro , Cornell University

Congratulations to the Faculty Award Winners!

Graduate Student Excellence Award finalists:

Steven Fiddaman , University of Oxford Jacob Steenwyk , University of California, Berkeley Diana Cruz Dávalos , University of Lausanne Jessica Warren , Arizona State University Chris Kyriazis , UCLA Robert Driver , East Carolina University Caroline Weisman , Princeton University Wendy Valencia-Montoya , Harvard University Agneesh Barua , Okinawa Institute of Science and Technology Graduate University (OIST)

Congratulations to all of the GSE Award finalists!

Best Regards,

SMBE

Society for Molecular Biology & Evolution
smbe@allenpress.com

Society for Molecular Biology & Evolution
<smbe@allenpress.com>

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ArizonaStateU PopulationGenomics

The Jensen Lab at Arizona State University is hiring postdocs in the area of computational population genomics. Interested candidates should please contact jeffrey.d.jensen@asu.edu by June 30. The start date is flexible, and the position will have secure funding from an NIH MIRA award. Lab research interests and publications may be found at: jjensenlab.org

Jeffrey.D.Jensen@asu.edu

DukeU SpeciationGenomicsMadagascar

NSF-funded postdoc in speciation and/or computational genomics THE POSITION: The Yoder Lab at Duke University seeks to hire a postdoctoral research associate with skills in computational and speciation genomics. You will become a member of a research team that takes an integrative approach to speciation biology by combining computer science, field ecology, and genomic analysis. The project is a collaboration with Ziheng Yang (University College London; computational biology) and Marina Blanco (Duke Lemur Center; behavioral field ecology).

Starting annual salary will be \$53,760, along with sched-

uled annual increases. Funding is available for up to four years with renewal determined annually. The position will remain open until filled. This is a reposting of the position as it was being held until a hiring decision was made for the initial candidate. He has indeed been hired for his dream permanent job (congratulations to Jordi!), so the search continues.

THE PROJECT: The project will focus on southeastern Madagascar where habitat fragmentation is threatening the survival of unique and irreplaceable biodiversity. In addition to generating important new knowledge about the processes that drive and delimit speciation, the project will include training and mentorship of both Malagasy and American students across a range of educational levels. The research focuses on mouse lemurs, which are the world's smallest primates and are unique to Madagascar and builds on current research that indicates that they have experienced episodic bursts of lineage diversification consistent with the climatic cycles of the Pleistocene. Key outcomes of the collaborative project will be the development of genomic data and computational tools for identifying the magnitude, direction, and rate of genetic exchange among lineages as well as a unique understanding of the roles of ecology, metabolism, and sensory communication play in inhibiting reproduction among the targeted species. The advertised postdoctoral position will be devoted to illuminating the role of genomic architecture in driving and maintaining species boundaries.

ORGANISMAL BIOLOGY & GENOMIC RESOURCES: Mouse lemurs are fascinating creatures of special biological interest given that they are genetically highly distinct though morphologically and ecologically similar. Notoriously, their taxonomy has exploded over the past 25 years, with more than 20 species described since 1994. Mouse lemurs reach sexual maturity within the first year of life, and typically reproduce annually within a highly constrained seasonal timeframe that is often correlated with the duration of a hibernation season. Female receptivity can be as short as several hours in a given year. During the austral winter, individuals of both sexes may enter periods of inactivity, ranging in duration from hours (daily torpor) to weeks (hibernation). The project will focus on a region of Madagascar where five distinct lineages, currently described as species, occur in patterns of both sympatry and allopatry. Divergence time analysis using a pedigree-derived measure of the de novo mutation rate (Campbell et al., 2021; Heredity) indicates that they achieve reproductive isolation extremely rapidly for a mammal which is a driving motivation for the research (Poelstra et al., 2022; bioRxiv). The project will benefit from a number of existing genomic resources

including a reference genome for one of the target species (Larsen et al., 2017; BMC Genomics) as well as a newly released transcriptomic cell atlas (The Tabula Microcebus Consortium; bioRxiv). In-country outreach activities will build upon previous field-based genomics and associated workshops (Blanco et al., 2020; Conservation Genetics).

QUALIFICATIONS: Applicants should have a PhD in evolutionary genetics/genomics and strong computational skills. We seek an independent and collaborative scientist with an interest in team-based science and a generous approach to student training across a range of educational levels. Applicants should be familiar with the latest developments in genome assembly, population-level resequencing, and statistical analysis of population genomic data. Experience with single-cell genomics is a plus.

WORK ENVIRONMENT: Duke University is located in the Research Triangle region of North Carolina. It is a short drive from other top universities, including UNC - Chapel Hill and NC State University, and has rich programs in evolution, ecology, and genomics. The region has diverse cultural resources and is conveniently situated between the Appalachian Mountains to the west and the Atlantic Ocean to the east. As we like to say: "turn right, and within 2.5 hours you can be hiking in the Smokies; turn left, and in 2.5 hours you can be lounging on some of the world's most beautiful beaches." The Yoder Lab welcomes individuals of all identities and backgrounds. We believe that the best science comes from an environment that includes

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Eawag Zurich Evolutionary Genomics

As part of a maternity leave replacement, a 4-month postdoc position in evolutionary genomics is available at the Weber Lab, Department of Aquatic Ecology, Eawag, Switzerland. The Weber Lab focuses on adaptation and conservation genomics of freshwater invertebrates (<https://www.eawag.ch/en/departement/eco-main-focus/adaptation-conservation-genomics/>).

Genomic and epigenomic data are available for analysis in two different projects: 1) Epigenomics of pollution in natural populations Whole-epigenome (MethylSeq) sequencing data of populations from polluted and unpolluted localities are available for two widespread invasive species: the Asian clam (*Corbicula fluminea*) and the Zebra mussel (*Deissena polymorpha*). The aim of this project is to compare the methylomes of populations from different habitats and different species from the same habitat to uncover epigenetic signatures of adaptation to pollution. 2) Sex determination in invasive mussels Whole-genome sequencing data of males and females are available for two emblematic invasive species of freshwater mussels: the Zebra mussel (*Dreissena polymorpha*) and the Quagga mussel (*Dreissena rostriformis*). The aim of this project is to uncover if there is a genetic sex determination system in these species and to describe it (chromosome; extent of differentiation; sex locus candidate). The postdoc can work on either project, depending on interests and experience.

We are looking for an independent, motivated, recently graduated postdoc (ideally less than 3 years) with a PhD in evolutionary biology, genomics, bioinformatics or related field. Experience with the UNIX environment and scripting (R and/or python) is essential. Good communication skills (written and spoken English) are expected. Knowledge of German is not required. The Weber Lab promotes diversity, equity and inclusion. Hence, we particularly welcome applications from underrepresented groups in science. This is a fixed-term employment from the 1st of August until 30th of November 2022. Remote work is negotiable after a few weeks at the office.

Applications should include: i) a cover letter detailing your scientific background, interests and fit for the position (including which project you wish to work on), ii) a detailed CV highlighting up to 3 publications (with a short description of your contribution and general importance of the work), iii) copies of your academic qualifications and iv) contact details of three references who can provide a recommendation letter upon request. Application screening will start immediately, and will remain open until the position is filled. To apply, please send a single PDF document with all above-mentioned information to Alexandra.weber@eawag.ch. Informal inquiries can also be sent to Alexandra.weber@eawag.ch. We look forward to receiving your application.

Dr. Alexandra Anh-Thu Weber

Group Leader, Department of Aquatic Ecology

Eawag, Swiss Federal Institute of Aquatic Science and

Technology

Ueberlandstrasse 133

8600 Dübendorf, Switzerland

email: Alexandra.weber@eawag.ch

web: www.alexandra-anh-thu-weber.com “Weber, Alexandra Anh-Thu” <Alexandra.Weber@eawag.ch>

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FieldMuseum Chicago ComparativeGenomics

Postdoctoral Research Associate, Molecular Evolution and Comparative Genomics

The Grainer Bioinformatics Center of the Science and Education Department at The Field Museum is recruiting a full-time Postdoctoral Research Associate to conduct comparative genomics of non-model organisms, with a focus on symbiotic fungi. We are looking for an individual with a strong interest and background in computational biology and/or bioinformatics. The position is for a term of 2 years, with the possibility for extension.

The research project aims to study the molecular evolution and genomic adaptation of asexual organisms and the adaptation of symbiotic organisms to specific environments. The successful candidate will be involved in various aspects of comparative genome analyses, including genome sequencing, assembly, and annotation. The candidate should be able to demonstrate experience in comparative genomics, generating and analyzing genomic datasets, competency with at least one scripting language (e.g., Perl, Python), and interest in applying new statistical approaches. Experience with phylogenetics and population genomics is a plus. Well-developed communication (verbal and written) and organizational skills are essential. The candidate will join a diverse team of bioinformaticians, evolutionary biologists, and molecular scientists and will demonstrate leadership ability to assist the PI with the guidance and training of students. The candidate should be sensitive to and enthused to work with and train undergraduate students from underrepresented groups in STEM.

The successful candidate is expected to publish at least one research paper as lead author within a year and

collaborate as co-author on additional research papers. Guidance will be provided following the Postdoctoral Mentoring Plan. Candidate will be expected to conduct research at the Field Museum.

Please contact Felix Grewe (www.felixgrewe.de, fgrewe@fieldmuseum.org) about any questions and apply online at <https://careers.hireology.com/fieldmuseum/867796/-description>. Complete application materials include a statement of interest, CV with publication list, and contact information of 3 professional references. Review of applications will begin on July 13th and continue until the position is filled.

Felix Grewe <fgrewe@fieldmuseum.org>

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FloridaIntIU GenomeEvolution

Postdoctoral Associate in the Department of Biological Sciences The lab of Dr. Janna Fierst in the Department of Biological Sciences at Florida International University (FIU) is searching for multiple postdoctoral researchers to contribute to several exciting projects in genome evolution. Current themes include:

Computational studies of horizontal gene transfer in nematode worms
Phylogenetic comparative analyses of the influence of sex on genome evolution
Inferring and modeling the genetic networks underlying cold tolerance in bumblebees
Theoretical development and comparative analyses of the population genomics of structural variant mutations

There are also opportunities for postdoctoral researchers to develop independent research projects and directions in collaboration with Dr. Fierst and other lab members.

Our lab projects include empirical lab work, bioinformatic analyses of large datasets, computational modeling, comparative genomics and evolutionary theory. There is ample opportunity for researchers with developed backgrounds in one research area (i.e., purely empirical or purely computational) to learn new skills, develop new research directions and make unique contributions to a vibrant, diverse community of young scientists.

FIU is a diverse community with a student body that represents the future of American public universities.

Eighty-five percent of FIU's students identify as Hispanic, Black, Asian or Pacific Islander, or a member of another group historically underrepresented in the sciences. More than half of FIU undergraduates qualify for Pell grants and are the first in their families to graduate from college. To maximize opportunity and experience for our diverse student population, we value and seek diversity in applicants for this position. The postdoctoral appointments will initially be for one year with the possibility of reappointment. A Ph.D. in Biological Sciences, Bioinformatics, Genetics, Computer Science, Applied Mathematics or related field is required.

Qualified candidates are encouraged to apply to Job Opening ID 527121 at

<https://facultycareers.fiu.edu/> and attach a cover letter describing research background, future interests and a curriculum vitae. Candidates will be requested to provide names and contact information for at least 3 references who will be contacted as determined by the search committee. Applications will be accepted until the position is filled. For more information, please visit our website at

<https://case.fiu.edu/biology/> and contact Dr. Fierst at jfierst@fiu.edu. Please include your current vitae and a brief description of your research background and future interests with your email.

Janna L. Fierst

Associate Professor

Department of Biological Sciences

Florida International University

Miami, FL 33199

Janna Fierst <jfierst@fiu.edu>

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Fontenay-aux-Roses InsectGenetics

The global population is estimated to reach approximately nine billion people by 2050, thus the demand for animal protein is expected to increase by 76% [1]. Such an increase questions the sustainability of our conventional food and feed production systems. At the same time, we also need to reduce the impact of agriculture on our environment [2]. Today, insect production is considered a sustainable alternative for food and feed

production for several reasons. First, the suitable nutritional composition of edible insects [3] and second, the relatively low environmental impact its production involves compared to other conventional livestock production systems.

The computational biology team led by Dr. Amin Madoui (<https://madoui.github.io/>) in the CEA François Jacob Institute of Biology in Fontenay-aux-Roses, France, is located 5 km from Paris and develops new research programs for human health and nutrition using high-throughput sequencing data and computational approaches to face new scientific challenges.

In the framework of the YnFabre project <http://www.ynsect.com/en/ynsect-launches-ynfabre-the-worlds-first-industrial-programme-dedicated-to-beetle-genetics/>, and in collaboration with private breeders, we offer a 2 years post-doctoral position to perform QTLs and GWAS analyses of complex traits in *Tenebrio molitor* to help our collaborators to better manage and improve the quality, environmental impact and yields of their production.

Mission and activity:

1. Analyze Illumina data to detect SNP, Indels and structural variants
2. Perform QTL, GWAS analyses and result interpretations
3. Lead the scientific article production and communication

Profile:

1. Programming in R and Python (or Perl)
2. Programming in Bash/Unix/Linux
3. Applied statistics
4. PhD in Quantitative genetics or/and genomics

[1] Alexandratos N, Bruinsma J: World agriculture towards 2030/2050: the 2012 revision. 2012 [2] Steinfeld H, Gerber P, Wassenaar T, et al.: Livestock's long shadow. 2006. [3] Nowak V, Persijn D, Rittenschober D, et al.: Review of food composition data for edible insects. Food Chem. 2016; 193: 39-46.

MADOUÏ Mohammed Amin
<mohammedamin.madoui@cea.fr>

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GeorgiaTech HumanPopulationGenomics

Description: The Lachance Lab at Georgia Institute of Technology is recruiting a postdoc or research scientist in human evolutionary genomics and health disparities. Our lab uses computational approaches to understand how genetic disease risks have evolved over recent human history. We are also engaged in improving the generalizability of polygenic risk scores to admixed populations. Choice of research topic is flexible. One potential research focus lies at the intersection of evolutionary medicine and anthropological genetics. An alternative research focus involves conducting genetic epidemiology and public health genomics studies of sub-Saharan African populations. This position is NIH-funded (R35GM133727 and R01CA259200).

Environment: The Lachance Lab contains a diverse set of scientists and we foster an inclusive research environment. We are key members of the Men of African Descent and Carcinoma of the Prostate (MADCaP) Network, and opportunities to develop collaborations with African colleagues will also be available, including building bioinformatics research capacity. Additional information about our research team can be found at: <https://popgen.gatech.edu>. We are part of the Center for Integrated Genomics at Georgia Tech, which includes the labs of Greg Gibson, Annalise Paaby, King Jordan, Patrick McGrath, and Todd Streebman.

Qualifications: - PhD in evolutionary biology, genetic epidemiology, human genomics, bioinformatics, or anthropology - Evidence of research productivity, including first author publications - Ability to work independently - Strong writing skills - Coding skills (R, Python) and previous experience working with large genome-scale datasets - A desire to mentor graduate and undergraduate students

Salary and duration: As per NIH guidelines, salaries will be commensurate with qualifications and experience. Subject to yearly review, this appointment is renewable and funding is available for multiple years.

Informal inquiries are welcome. Please contact joseph.lachance@biology.gatech.edu if you have any questions.

joseph.lachance@biology.gatech.edu

GothenburgU 3yr ComputationalEvolEcology

Subject: Postdoc: Gothen-
burgU.3yr.ComputationalEcology

Fully funded 3 year postdoc in computational ecology in my lab on the three-way interaction between global climate, vegetation structure and mammalian herbivory Strong computational skills (ideally in C++ but potentially in other language) are needed. Prior knowledge of vegetation dynamics or mammal ecology is desirable but any strong coder with interests in biology are encouraged to apply Deadline 15th of July Deadline 15th of July Please contact me at soren.faurby@bioenv.gu.se or Soren.Faurby on twitter if you have any questions.

Full details can be found at https://web103.reachmee.com/ext/I005/1035/-job?site=7&lang=UK&validator=-9b89bead79bb7258ad55c8d75228e5b7&job_id=-26069or <https://tinyurl.com/FaurbyJob>
soren.faurby@bioenv.gu.se

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ing@mcmaster.ca](mailto:gold-
ing@mcmaster.ca))

Harvard EvolutionaryBiology

Dear colleagues,

I'm looking for postdocs to work on funded projects, briefly described below. Full details of the position and how to apply are here < <https://www.extavourlab.com/-join-us/#tab-id-3> >.

1. Molecular Mechanisms of Germ Line Determinants: Understanding the molecular, biochemical, and biophysical mechanisms driving formation of cytoplasmic germ line determinants in *Drosophila melanogaster*.
2. Adult Insect Neural Stem Cells: Elucidating the genetic and molecular basis of neural stem cell function, learning and memory in a cricket model system (*Gryllus bimaculatus*).
3. Functional Genetics in Unusual Insect Model Systems: Developing tools for functional genetics in "basally branching" insects,

including earwigs, stick insects, crickets, and firebrats.
4. Evolution of Intermediate Filaments: Determining how functional evolution of intermediate filament proteins impacts mechanical properties of animal epithelia, including in cricket (*Gryllus bimaculatus*) and crustacean (*Parhyale hawaiiensis*) model systems. Collaborative project with the labs of Pavel Tomancak < <https://www.mpi-cbg.de/research/researchgroups/-currentgroups/pavel-tomancak/research-focus> >, Andreas Hejnlol < <https://www.researchgate.net/-lab/Comparative-Developmental-Biology-Hejnlol-lab-Andreas-Hejnlol> > and Carl-Philippe Heisenberg < <https://ist.ac.at/en/research/heisenberg-group/> >.

If you know of interested candidates, please send them my way! Thanks for disseminating.

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

<http://www.extavourlab.com> Harvard University
16 Divinity Avenue, BioLabs 2087
Cambridge, MA 02138, USA Tel. 1 617
496 1935 <tel:1%20617%20496%201935> extavour@oeb.harvard.edu

Extavour Lab Administration: Esther Jules,
Research Coordinator Tel. 1 617 496 2132
<tel:1%20617%20496%202132> ejules@fas.harvard.edu

Dr. Evelyn Schwager, Lab Manager Tel. 1 617
496 1663 <tel:%201%20617%20496%201663> schwager@fas.harvard.edu

EDEN: Evo-Devo-Eco Network
<http://www.edenrcn.com> <
https://urldefense.proofpoint.com/v2/url?u=http-3A__www.edenrcn.com_&d=DwMFaQ&c=WO-RGvefibhHBZq3fL85hQ&r=S00rOfTifKhXakfOjjibGsZNg7y_7__MtbSw9VXGpWjR9wlAg7Aghj&s=DM1E2JHsK13SCyay1ITEqzBwzywHP9K
> edenrcn@fas.harvard.edu

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

(to subscribe/unsubscribe the EvolDir send mail to [gold-
ing@mcmaster.ca](mailto:gold-
ing@mcmaster.ca))

Hilo Hawaii InsectGenomics

Job: Postdoctoral or MS-level research associate studying genomics and entomology in Hilo, Hawaii

A position is available for a postdoctoral research associate through Eastern Mennonite University to investigate control of tropical insect pests using genetic, genomic, and bioinformatic techniques, with the work location being the USDA-ARS Pacific Basin Agricultural Research Center located in Hilo, Hawaii.

The selected candidate will investigate the invasion of a new insect pest, the Queensland Longhorned Beetle, *Acalolepta aesthetica* (Coleoptera: Cerambycidae) on Hawaii Island using whole genome sequencing, transcriptome sequencing, and population genetics.

The desired candidate will have a strong background in invasion biology, bioinformatic analysis of genomic and population genetics, and computational biology through a command-line interface.

Candidates who have demonstrated strong written and oral communication skills, experience working independently and as part of a group, and strong interpersonal skills are encouraged to apply.

A PhD or MS in biology, genetics, evolution, entomology, or related disciplines is required at the time of application.

The position will be hired through Eastern Mennonite University and the candidate selected will serve as a postdoctoral research associate with health benefits and salary commensurate with experience. The position is guaranteed for one year with the possibility of extension contingent on performance. The position will be based in Hilo on the Big Island of Hawaii.

For this position, the hiring body (Eastern Mennonite University) is unable to sponsor foreign nationals, and thus all applicants must have the right to work in the United States.

If interested, please submit a cover letter, CV, and the contact information of three references to: Dr. Sheina Sim, sheina[dot]sim[at]usda[dot]gov.

While the candidate will not be employed in the federal service, it is relevant to note that the US Department of Agriculture, Agricultural Research Service is an equal opportunity/affirmative action employer and all agency services are available without discrimination.

Eastern Mennonite University is an equal opportunity employer, committed to enhancing diversity across the institution. Eastern Mennonite University does not discriminate on the basis of race, color, national or ethnic origin, sex, disability, age, sexual orientation, or gender identity. EMU conducts criminal background investigations as part of the hiring process.

Sheina B. Sim, PhD USDA-ARS Daniel K. Inouye US Pacific Basin Agricultural Research Center Hilo, HI 96720 USA

Sheina B. Sim, PhD USDA-ARS Daniel K. Inouye US Pacific Basin Agricultural Research Center 64 Nowelo Street Hilo, HI 96720 USA sheina.sim@usda.gov

“Sim, Sheina - ARS” <sheina.sim@usda.gov>

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InstitutoGulbenkianCiencia GenomeMaintenanceEvolution

POSTDOCTORAL POSITION IN THE GENOME MAINTENANCE AND EVOLUTION LAB AT THEIGC (PT)

We are looking for a postdoc to join our group at the Instituto Gulbenkian de Ciéncia, Portugal. The project will aim to understand basic principles governing genome maintenance over evolutionary timescales. It will involve molecular, cellular, and evolutionary techniques with *S. cerevisiae*, as well as computational and genomic analyses. Specific plans for the projects will be discussed during the interview phase and will be shaped by considering the profile of the successful candidate, as well as their input and interest. Previous experience in the field or with the methods is welcomed, but not required. For more details:

Official call: <https://gulbenkian.pt/ciencia/wp-content/uploads/sites/47/2022/05/Call-Fellowship-Internal-MF-1.pdf> Lab website: <https://fumalab.github.io> Institute website: <https://gulbenkian.pt/ciencia/> Marco Fumasoni Genome Maintenance and Evolution Lab Instituto Gulbenkian de Ciéncia (IGC) Rua da Quinta Grande, 6, 2780-156 Oeiras, PT <https://fumalab.github.io@marcofumasoni> Tiago Paixao <searapaixao@gmail.com>

IowaStateU BirdEvolution

Postdoc: IowaState.Bird.Physiology_Eco.Evo

The Riddell Lab in the Department of Ecology, Evolution, and Organismal Biology at Iowa State University is seeking to hire a postdoctoral researcher with an expertise in avian physiology, ecology, and/or evolution. The postdoc will be hired to study the ecology and evolution of birds through the lens of physiology and will work directly with Dr. Eric Riddell. We are open to different types of backgrounds and interests, but we are hoping for a postdoc with experience in any of the following areas: physiology, ecology, and evolution of birds, coding in R or Python, biophysics, phylogenetic analyses, field experience, or species distribution modeling. The position is for 2 years, with annual reappointment.

The postdoc will contribute to multiple ongoing projects in the lab, including exciting datasets on feather reflectance that are ready to be published. In addition, the postdoc will assist in a long-term monitoring project of a tree swallow population in Ames, IA.

The postdoc can take advantage of three new facilities in the Riddell Lab. We have a new wet lab, our own animal care facility with 9 programmable chambers, and a new aviary for conducting long term experiments on birds. In addition, the lab has several respirometry systems, behavioral monitoring systems, and computational resources.

Iowa State has a thriving intellectual community of scholars in ecology and evolution in the EEOB Department (<https://www.eeob.iastate.edu/>). The University is set in Ames, IA, which is a small city outside of Des Moines, Iowa (with the nearest airport). Ames is very affordable and a very pleasant community with lots of green space, nice schools, breweries, and great people.

Diversity, equity, and inclusion are core values in our group, and we are committed to ensuring that our workplace reflects those values. We strongly encourage applications from researchers identifying as a member of a historically marginalized group in STEM.

To apply, please submit a CV and short cover letter that lists the contact information for two references. These documents should be submitted via the following Google Form: <https://forms.gle/TxojtYrDePPrTseB8> Review of applications will begin on July 1, 2022 and continue until the position is filled. Interested potential

candidates are welcome to reach out to Dr. Eric Riddell (eriddell@iastate.edu).

Eric Riddell, Ph.D. Assistant Professor Iowa State University Department of Ecology, Evolution, and Organismal Biology Ames, IA 50010 www.ecophysiology.org he | him | his

“Riddell, Eric [EEOB]” <eriddell@iastate.edu>

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

LMU Munich PaleoPhylogenetics

2 Postdoc/PhD Positions in Paleo-Phylogenetics

I invite applications for two postdoctoral or doctoral positions in paleo-phylogenetics in my research group at the GeoBio-Center of the Ludwig-Maximilians-Universität (LMU), München. The positions are part of my ERC Starting Grant “MacDrive”. The positions are temporary research positions for 4 years (no classes and teaching required but possible). The starting date is flexible between 1st September 2022 and 1st September 2023. For these two positions, I invite applications for both postdoctoral and PhD level. I am specifically looking for applicants with a taxonomic background to complement the existing expertise in my group.

The Project MacDrive aims to test which factors drive diversification rates, e.g., species-specific factors such as body size, habitat and diet, versus external factors such as the environment. To answer this question, we will estimate several species-level phylogenies with extant species and fossil species. Additionally, we will develop new statistical methods to estimate these time-calibrated phylogenies with fossil taxa based on both molecular and morphological data, as well as new statistical methods for diversification rate estimation. The methods will be integrated into our software RevBayes (<https://github.com/revbayes/revbayes>).

In this part of the project MacDrive, you will be responsible for estimating a time-calibrated phylogeny of two of these four groups: Carnivora, Cetartiodactyla, Squaliformes and Crocodyliformes. Since there are two positions, all four groups should be covered although similar groups for additional case studies can be explored. The goal is to build a dataset that includes up to 75% of known fossil species. You will be responsible for building the morphological dataset, which is likely to include collecting the data from the primary

sources. Then, you will be responsible for performing the phylogenetic analysis to estimate the time-calibrated phylogenies. During the project MacDrive, we will develop new approaches to estimate phylogenies for such datasets (done by another PhD student) and you will get the opportunity to contribute to this method development (e.g., testing these new methods on your data). Once these phylogenies are available, you will perform macroevolutionary analyses to test for drivers of diversification rates. The necessary skills to perform the phylogenetic and macroevolutionary analyses can be learnt during this project. Ideally, we will be able to identify common patterns shared across all study groups, such as the impact of mass extinction or the environment vs species-specific factors. This part of the project is in collaboration with Graham Slater (University of Chicago) besides our large group of local collaborators in Munich.

Applicants should have a PhD degree (if applying for the postdoctoral position) or a Master's degree (if applying for the PhD position), completed or completion imminent, in paleontology, zoology, evolutionary biology or a related field. The key skills required are taxonomic expertise of the study groups and good communication skills (oral and written English). Basic knowledge in phylogenetics, macroevolutionary analysis and statistical inference (especially R and Bayesian statistics) is beneficial but not required. Training in these skills will be provided depending on need. No knowledge of German is required but some basic knowledge will be helpful outside of work. Enthusiasm, determination and the capacity to work independently are essential. The candidate is highly encouraged to develop their own research ideas complementing the current research direction.

My group is broadly working on theory and computational methods for Bayesian inference of phylogeny (<https://hoehnalab.github.io>). Our research directions include phylogeny inference, divergence time estimation, diversification rate estimation and model testing. All of our methods are implemented in the open-source program RevBayes (<http://www.RevBayes.com>) which is the successor software of the popular program MrBayes. The successful applicant will be part of our vibrant RevBayes group. There will be opportunities for the successful applicant to work with and visit the research groups of my collaborators in Europe and the USA. Furthermore, I expect the candidate to become actively involved in our RevBayes workshops as a lecture or teaching assistant.

My group is located at the GeoBio-Center of the LMU Munich, one of Germany's and Europe's top Universities (#32 world-wide; #8 in Europe; #1 in Germany; [\[university-rankings/lmu-munich\]\(https://www.timeshighereducation.com/world-university-rankings/lmu-munich\)\). The GeoBio-Center is located at the Königsplatz which is in walking](https://www.timeshighereducation.com/world-</p>
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LMU Munich Theoretical Evolutionary Biology

We are looking for a Post-Doctoral Researcher in Theoretical Evolutionary Biology, Bioinformatics or Statistical Genomics at LMU Munich, Faculty of Biology, Statistical Genetics group (Prof. Dirk Metzler) in the division of evolutionary biology

The position is limited to 3 years, with a possible extension to 6 years.

About us:

In the research projects of the statistical genetics group (https://evol.bio.lmu.de/_statgen/) at the LMU Munich Faculty of Biology we model biological processes (e.g. speciation processes, evolution of behavioral traits, molecular evolution, methylation dynamics in cancer) and develop computational-statistical methods to fit these models to biological data, not only but also from our collaboration partners in the division of evolutionary biology (<https://evol.bio.lmu.de/index.html>).

Your tasks and responsibilities:

* The position offers opportunities for collaborations in existing research projects in the division of evolutionary biology and in particular the statistical genetics group, but also to establish your own research group with your independent research profile. * The position comes with teaching obligations of 5 teaching hours per week during the summer term (14 weeks) and the winter term (15 weeks). (Teaching hours are 45 Minutes.)

Your qualifications:

* You should have scientific experience in one or more of the following fields: theoretical population genetics, genomic/evolutionary bioinformatics, stochastic models for processes in evolutionary biology or ecology, quantitative genetics, or computational statistics. * Prerequisites for the application are a doctoral degree in bioinformatics, mathematics, statistics, biology, physics or a related

field. * Of advantage is experience in teaching in English and/or German, in the analysis of biological data, in interdisciplinary projects, in the development of computational methods, and/or in the development of research projects, including the acquisition of funding.

Benefits:

* For candidates actively seeking funding, this position provides a great opportunity to develop one's own research agenda and start an independent research group. * We have excellent students both in biology as well as in more specialized master's programs such bioinformatics“ (), evolution, ecology and systematics” (EES, <http://ees.bio.lmu.de/>) and European Erasmus Mundus Program in Evolutionary Biology (MEME, <http://www.evobio.eu/>). * With two top universities and several Max-Planck-, Helmholtz- and other research institutions, Munich offers a lively and diverse research environment with excellent opportunities for scientific collaborations. * In contrast to the current funding climate in many other European and non-European countries, funding rates are * relatively high in Germany, and there are several sources to apply from, see e.g. <http://www.research-in-germany.org/en/research-funding.html> or https://www.dfg.de/en/research_funding/index.html. In addition, transnational European funding schemes offer attractive opportunities (<https://erc.europa.eu/funding>). * You will have the possibility of habilitation at LMU

Look forward to responsible and varied tasks at Germany's largest university. You will work on the high-tech campus in Planegg-Martinsried. An extensive range of training and development opportunities at all stages of your career awaits you. The compatibility of career and family is important to us: You have the opportunity to mobile working as well as flexible working hours. Remuneration is in accordance with TV-L, depending on qualifications. (Remuneration group: A13 or TV-L E13).

LMU has signed the “Diversity Charter” and is committed to the diversity of its employees. We therefore actively promote equality between women and men.

Also possible in a part-time capacity. People with disabilities who are equally as qualified as other applicants will receive preferential treatment.

Contact:

We look forward to receiving your application by e-mail (CV, concept for research for the next three to five years and possible collaborations at LMU, Copies of degree certificates and transcripts, any other relevant materials, all in one PDF, max. 5 MB) by 30.06.2022 to: Prof. Dr. Dirk Metzler, e-mail: metzler@bio.lmu.de

see also: <https://job-portal.lmu.de/jobposting/-649f4c1d43858f76abbc4c3b4757657b387a0adf0?ref=-homepage> Dirk Metzler <metzler@biologie.uni-muenchen.de>

Lyon Bioinformatics

A position as a postdoctoral researcher/fellow in bioinformatics is available at the Laboratory of Biometry and Evolutionary Biology (LBBE), University of Lyon 1, France.

Further information about the position and details about application are available at: <https://emploi.cnrs.fr/Offres/CDD/UMR5558-NATARB-029-Default.aspx?lang=3DEN> You are welcome to submit your application no later than 2022-06-15.

For inquiries please contact: Laurent Gui₂guen, laurent.gueguen@univ-lyon1.fr, Carina Mugal, carina.mugal@univ-lyon1.fr

Project description: The aim of the postdoc project is to fill the gap between classical phylogenetics and population genetics, and provide a multi-scale approach for the estimation of natural selection that incorporates intra- and inter-specific data.

This work will be based on the theoretical work by Kaj & Mugal (doi: 10.1016/j.tpb.2016.06.003), which provides analytical solutions for the influence of polymorphism on the estimation of selection in classical phylogenetic approaches. The novel approach will implement the theory in order to compute the transition probabilities between polymorphic states and fixations among species. For integration of the population genetics theory into a phylogenetic setting, the work will also rely on models of speciation dynamics (starting with the simplest models of speciation, so-called isolation-without-migration models).

The novel approach will be implemented in Bio++ libraries, which are a set of C++ libraries dedicated to bioinformatics, phylogenetics, and molecular evolution.

Finally, building on these developments, the postdoc will investigate the evolutionary dynamics of bat genes that lie at the core of the BATantiVIr project.

Skills: The candidate has a good knowledge of molecular evolution, and a solid basis in mathematical modelling. She/he is familiar with bioinformatics, population genetics and phylogenetic concepts. Last, she/he is au-

tonomous in C++ programming.

Carina Farah Mugal Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18D 752 36 Uppsala Sweden

<http://katalog.uu.se/profile/?id=3DN8-1504> Ni du har kontakt med oss på Uppsala universitet med e-post innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: <http://www.uu.se/om-uu/dataskydd-personuppgifter/> E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: <http://www.uu.se/en/about-uu/data-protection-policy> carina.mugal@ebc.uu.se

Lyon BioinformaticsPhylogenetics

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Further information about the position and details about application are available at: <https://emploi.cnrs.fr/Offres/CDD/UMR5558-NATARB-029/Default.aspx> You are welcome to submit your application no later than 2022-07-27.

For inquiries please contact: Laurent Guéguen, laurent.gueguen@univ-lyon1.fr, Carina Mugal, carina.mugal@univ-lyon1.fr

Project description: The aim of the postdoc project is to fill the gap between classical phylogenetics and population genetics, and provide a multi-scale approach for the estimation of natural selection that incorporates intra- and inter-specific data.

This work will be based on the theoretical work by Kaj & Mugal (doi: 10.1016/j.tpb.2016.06.003), which provides analytical solutions for the influence of polymorphism on the estimation of selection in classical phylogenetic approaches. The novel approach will implement the theory in order to compute the transition probabilities between polymorphic states and fixations among species. For integration of the population genetics theory into a phylogenetic setting, the work will also rely on models of speciation dynamics (starting with the simplest models of speciation, so-called isolation-without-migration models).

The novel approach will be implemented in Bio++ libraries, which are a set of C++ libraries dedicated to bioinformatics, phylogenetics, and molecular evolution.

Finally, building on these developments, the postdoc will investigate the evolutionary dynamics of bat genes that lie at the core of the BATantiVIR project.

Skills: The candidate has a good knowledge of molecular evolution, and a solid basis in mathematical modelling. She/he is familiar with bioinformatics, population genetics and phylogenetic concepts. Last, she/he is autonomous in C++ programming.

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

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MichiganStateU ElectricFishGenomics

A postdoctoral opportunity is now available in the MSU Electric Fish Laboratory in the Department of Integrative Biology at Michigan State University (<http://efish.integrativebiology.msu.edu>). For the past several years, The MSU Electric Fish Lab has endeavored to establish weakly electric fish as a model system for genotype-to-phenotype studies through genome and transcriptome sequencing and the development of functional genomics tools. Our team is now seeking motivated, creative, question-driven postdoctoral researchers to leverage these tools to examine the numerous convergently evolved traits of weakly electric fish. This position is ideal for a candidate with a strong genomics skillset wishing to address their own research question using the weakly electric fish model system. Aside from an annual salary of \$60,000 plus healthcare benefits, the laboratory will provide access to equipment, materials, reagents to develop a proposed project with the goal of securing extramural funding.

This position is available as of August 2022 but start dates are negotiable. The position will remain open un-

til filled. Appointment for this position will be initially for 12 months, renewable for an additional year contingent on satisfactory progress of the successful applicant based on duties described below.

The successful applicant will be responsible for developing a proposed research project leveraging the weakly electric fish system with a strong bioinformatics and/or functional genomics component. Work will require the development of new research methodologies and tools, design and execution of publishable studies, and co-authoring a grant proposal. In addition, successful applicants will be responsible for mentoring undergraduate, graduate students, as well as contributing to the overall research environment of the University through the MSU Program in Ecology, Evolutionary Biology (<http://eeb.msu.edu>). I formal inquiries can be sent to Dr. Jason Gallant at the email below. Full application instructions can be viewed here: <https://careers.msu.edu/en-us/job/511036/research-associatefixed-term> Dr. Jason R. Gallant Associate Professor Room 138 Giltner Hall Department of Integrative Biology Michigan State University East Lansing, MI 48824 jgallant@msu.edu

office:517-884-7756 <http://efish.integrativebiology.msu.edu> “Gallant, Jason” <jgallant@msu.edu>

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NantesINRAE EvolComparativeGenomicsTicks

Post-doctoral position (18 months) to work on the comparative and evolutionary genomics of ticks.

Starting date: September 1st, 2022. Applications are possible until July, 8th, 2022, or until the position is filled.

Context: Ticks are blood-feeding arthropods that represent a significant health concern for humans and domestic animals due to the potential transmission of bacterial pathogens and parasites. Emerging knowledge on tick genomics (Gulia-Nuss et al. 2016, Nat. Comm., Jia et al. 2022, Cell) is beginning to help understand the specifics of tick genomes and the genetic bases for some of the unique history traits of ticks. In this context, our group (INRAE, Nantes, France), through a partnership with the Genoscope (CEA, Evry, France) has sequenced the genomes of four species of the genus *Ixodes*, including

Ixodes ricinus, which is a widespread, wide host range, and potentially problematic species, being the vector of Lyme disease in Europe.

Project: The post-doc will lead the comparative genomics studies of the four genomes produced by our collaboration with Genoscope (the four annotated genomes are already available), and also publicly available genomes produced by other research groups. Its main mission will be to study the evolutionary dynamics of tick genomes, with a focus on the genus *Ixodes*: identification of gene expansions/contractions and association with specific functions, patterns of gene order conservation, detection of events of horizontal gene transfers, evaluation of evolutionary rates and atypical patterns (positive selection). In addition, depending on skills and time, a populational study of genetic variation, at the genome (or exome) level, can be considered.

Location: the position is available for 18 months starting from September 2022, at the BIOEPAR lab in Nantes, in the TIBODI group, a team of 5 searchers and 3 technicians working on ticks and tick-borne diseases. Nantes is a vibrant city on the French west coast, known for its quality of life. The post-doctoral searcher will work closely with Claude Rispe (PI), while interactions will be pursued with the Genoscope and with bioinformaticians of BIPAA (a platform that manages arthropod genomes of agronomical importance, in Rennes).

Candidate: - PhD or previous post-doc in the field of comparative/evolutionary genomics, - Skills/experience in phylogenetic analyses, evolutionary rates, evolution of gene repertoires, - Skills in bioinformatics tools and scripting (bash, R, python or perl), - Excellent abilities in data analyses, writing of scientific papers, communication, teamwork.

Monthly net salary: between 1905 euro and 2346 euro, depending on experience (duration of research time post-thesis).

All applications must be sent by email to Claude Rispe (claudio.rispe@inrae.fr). Please include a CV, explain the motivations of your application and your adequacy with the description of the position. The names and email addresses of at least two referees are required. The documents must be in pdf format, fused in a single file, and can be written in French or English.

Claude Rispe, chercheur, responsable d'équipe TIBODI (tiques et maladies associées)

INRAE, Oniris, BIOEPAR, Nantes, France

Claude Rispe <claudio.rispe@inrae.fr>

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NorthCarolinaStateU ModelingGeneDriveMosquitoes

Modeling Gene Drives for Controlling Mosquito-Borne Infections

We are looking to hire two postdocs to work on an NIH-funded project on modeling gene drives for controlling infections transmitted by *Aedes aegypti* mosquitoes.

BACKGROUND: Interest in using genetically-altered mosquitoes to combat mosquito-borne infections has grown rapidly in the wake of recent development of CRISPR-based gene editing technology. Gene drives can be used to spread specific transgenes into a mosquito population either to reduce its size or to render it unable to transmit a particular pathogen. In some situations, uncontrolled spread of a drive could be a concern, so there is interest in developing drives that are temporally or spatially limited.

OUR WORK: Our group uses modeling techniques to explore the likelihood of success of different approaches. We use a range of models, from simple through to complex, in order to understand the dynamics of proposed drives and how various biological complexities (such as density dependent population dynamics, spatial structure and mating behavior) will impact gene drive-based control.

Our most detailed model simulates the spatial population dynamics and population genetics of *Ae. aegypti* in a city, Iquitos, in the Amazonian region of Peru. There are rich data sets on both mosquito dynamics and dengue epidemiology that have been collected in this city. One important characteristic of this mosquito is limited among-house movement and strong population structure.

JOB DESCRIPTIONS: We are looking for applicants with a solid background in population biology and population genetics who have experience with modeling and who want to do applied research. We have some flexibility in these positions, but ideally would like to hire one person who would work on conceptualizing novel drive strategies and another who would focus more on exploring the success of drives in ecologically-rich models. For the second position, experience with C++ or related languages would be desirable. For both positions, the ability to work independently and to communicate effectively as a member of a team is essential.

Our project is strengthened by collaborations with a number of labs in the US and in Peru, and activity in the Genetic Engineering and Society Center at NC State that examines societal aspects of novel genetic technologies. The postdocs will interact with members of these other research groups. If desired, there will be an opportunity for some work in Peru and for mentoring undergraduate and graduate students. The appointment is for two-years with the potential to write new grants for extension beyond that period.

Dhole S, Lloyd AL, Gould F. 2020. Gene drive dynamics in natural populations: the importance of density-dependence, space and sex. *Annu. Rev. Ecol. Evol. Syst.* 51:505-31

Magori K, et al. 2009. Skeeter Buster: a stochastic, spatially explicit modeling tool for studying *Aedes aegypti* population replacement and population suppression strategies. *PLoS Neglected Tropical Diseases* 3 (9), e508

To apply: email a cover letter and CV to fred_gould@ncsu.edu AND alun_lloyd@ncsu.edu

Fred Gould <fgould@ncsu.edu>

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

NortheasternU MarineBivalveSymbionts

Postdoc: NortheasternU_Symbiont-host interaction in marine bivalves

The Distel Laboratory < <https://cos.northeastern.edu/people/dan-distel-2/> > at the Northeastern University Marine Science Center < <https://cos.northeastern.edu/marinescience> > seeks a postdoctoral research scientist to take a leading role in research exploring the interactions between wood-eating teredinid bivalves (shipworms) and their intracellular cellulolytic bacterial endosymbionts. Shipworms provide an extraordinary model system for investigating symbiont acquisition and intracellular infection as both the hosts and their symbionts can be cultured in the laboratory. Their symbionts are a rich source of secondary metabolites, including antimicrobials and antibiotics that likely play a key role in shaping and defending their microbiomes. They are also the only marine animals known to grow and reproduce with wood as a sole food

source. Hence the system has relevance to symbiotic and pathogenic infection, drug discovery, microbial community assembly, lignocellulose degradation and biofuel/biomass conversion. The current project aims to advance understanding of symbiont acquisition and host-symbiont interaction at molecular, physiological, and ultrastructural levels under funding from the Gordon and Betty Moore Foundation <[https://www.moore.org/article-detail?newsUrlName=the-moore-foundation-invests-\\$140-million-to-explore-aquatic-symbioses%3e](https://www.moore.org/article-detail?newsUrlName=the-moore-foundation-invests-$140-million-to-explore-aquatic-symbioses%3e)>. The Distel lab is located at Northeastern University's Marine Science Center in Nahant, Massachusetts, on Boston's North Shore. The anticipated term of the appointment is 1.5 years with possibility of extension based on performance. The appointment is anticipated to begin in the first quarter of 2022.

Responsibilities:

The successful candidate will utilize molecular techniques to (1) explore host-symbiont interactions in the shipworm symbiotic model system, (2) perform laboratory and field research, (3) lead and assist with the preparation of research papers and grant proposals, (4) assist with overall management of the Distel Laboratory and (5) help supervise and train students. Ability to SCUBA dive within the AAUS framework is desirable but not required.

Qualifications:

A PhD or equivalent in microbiology, bacterial molecular biology, or a related biological discipline is required. Candidates must be able to undertake substantial full-time research and scholarship under the supervision of a senior scholar and must be knowledgeable in one or more of the following disciplines: molecular biology, genomics, bioinformatics, microbiology, invertebrate zoology, symbiosis.

Preferred experience:

Prior experience in the following areas will be especially valuable: bacterial genetic engineering, genomic and metagenomic sequencing, comparative genomic analysis, in situ hybridization and fluorescence microscopy. Knowledge of lignocellulose degradation (carbohydrate-active enzyme activity and expression) is desirable but not required.

Position Type

Research

Additional Information

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values

and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion.

All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law.

To learn more about Northeastern University's commitment and support of diversity and inclusion, please see www.northeastern.edu/diversity To apply, please go to: <https://northeastern.wd1.myworkdayjobs.com/en-US/careers/details/Postdoctoral-Research-Associate.R102480?locations=299650046df20101f1b8ea205a9c0000>

Daniel L. Distel, PhD (He, Him, His) Director Ocean Genome Legacy Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908 (617) 373-2576 d.distel@northeastern.edu

<https://cos.northeastern.edu/people/dan-distel-2/>
"Distel, Dan" <d.distel@northeastern.edu>

Okinawa Four Macroevolution

Postdocs: OIST.4.Macroevolution.June15 (Renewed, Deadline Extended)

The new Marine Macroevolution Unit (groups.oist.jp/mmu) the Okinawa Institute of Science and Technology (OIST) is recruiting postdocs (PhD5 years) or staff scientists (PhD 5 years) in Ichthyology, Paleontology (Fishes or Early Vertebrates Preferred), Systematics/Phylogenetic Comparative Methods (Methods Focused/Any Group), and Fish Biomechanics:groups.oist.jp/mmu/positions.

These positions are funded for 3-5+ years(dependent on progress) and comes with a high level of research and travel support. Researchers at OIST have access to shared facilities and resources with full time techs, including a marine science station, environmental informatics section, sequencing facilities, imaging lab with micro-CT, a 3D printing and fabrication lab, and a high-powered computing cluster.

Salaries are competitive, with adjustments and annual raises based on years since PhD and experience. Benefits include generous housing and childcare allowances, insurance, relocation assistance, and paid leaves. OIST is an English-language institution with a highly diverse,

international research community (and their families), and hosts a large number of both scientific and community events throughout the year.

Note: Initial Review has been extended to June 15, but later applications will be accepted until all positions are filled!

Please go to the links below for specific requirements and application information.

Postdoc or Staff Scientist in Systematics and Phylogenetic Comparative Methods (initial review June 15, open until filled): <https://www.oist.jp/careers/postdoctoral-scholar-or-staff-scientist-systematics-and-phylogenetic-comparative-methods> Postdoc or Staff Scientist in Ichthyology (initial review June 15, open until filled): <https://www.oist.jp/careers/postdoctoral-scholar-or-staff-scientist-ichthyology> Postdoc or Staff Scientist in Paleontology (fishes, early vertebrates, or marine preferred, initial review June 15, open until filled): <https://www.oist.jp/careers/postdoctoral-researcher-or-staff-scientist-paleontology-fishes-or-early-vertebrates> Postdoc or Staff Scientist in Fish Biomechanics (initial review June 15, open until filled): <https://www.oist.jp/careers/postdoctoral-scholar-or-staff-scientist-fish-biomechanics> Please share widely with your network!

Lauren Sallan, PhD Unit Head and Transitional Assistant Professor Marine Macroevolution Unit Okinawa Institute of Science and Technology Graduate University (OIST) groups.oist.jp/mmu lauren.sallan@oist.jp

Lauren Sallan <Lauren.Sallan@oist.jp>

Paris Microalgae Adaptations

A postdoctoral position is available for 24 months the project is funded to study the genetic innovations in photosynthetic-related activities in diatoms. Flexible start between January and March 2023, in the heart of Paris at Institut de Biologie Physico-Chimique, in the team Evolution of Photosynthetic Functions and Genome Dynamics in Microalgae of the Laboratory of Chloroplast Biology and Light-sensing in Microalgae <http://www.ibpc.fr/UMR7141>. The post-doctoral associate will benefit from the environment of experts in sequence analysis and genome evolution, diatoms biology and functional genomics, chloroplast biology and photosynthesis, which should allow him/her to imagine and design new experiments as she/he progresses in this

research project.

Requirements: - PhD in the field of comparative/evolutionary genomics

- Skills/experience in phylogenomics, molecular evolution, evolution of gene repertoires

- Strong skills in programming and statistics

- Excellent abilities in data analyses, writing of scientific papers, communication, teamwork.

Keywords : Comparative genomics; endosymbiosis; genetic innovations Description

Diatoms are the world's most diverse group of algae, comprising at least 100,000 species. Found in many different aquatic zones (marine and freshwater ecosystems, intertidal flats, soil, glacier and sea-ice), these algae would be responsible for about 20% of the global carbon fixation and oxygen production on earth. Evolutionarily, diatoms are only distantly related to green algae and plants (Archaeplastida). Whilst these latter organisms are derived from the primary endosymbiosis of a cyanobacterium into an heterotrophic protist, diatoms and related organisms within the Stramenopila group, are derived from a secondary endosymbiosis, involving the capture of at least a red alga and green algae by another eukaryote (Falciatore et al., Plant Cell 2020). Diatoms therefore display distinctive genomic, cellular and metabolic features compared to organisms of the green lineages and appear particularly suited from an evolutionary point of view to study the dynamics of intracellular genomes communication, and the genetic determinants of photosynthetic adaptation to different aquatic lifestyles.

This *in silico* project aims at shedding light on the genetics innovations of diatoms with regard to chloroplast functions, either in its biogenesis or in its metabolic activities. In the context of secondary endosymbiosis, paradigms established for Archaeplastida need to be revisited, in particular as regards (i) intracellular transport of proteins and metabolites between the cytosol and the chloroplast and (ii) the coordination of gene expression between the nucleo-cytosol and the chloroplast. Addressing these questions requires a comprehensive exploration and identification of chloroplast-targeted proteins or whose expression profile correlates with those of known chloroplast genes in diatoms. The focus will be made on genes possibly involved in the regulation of diatom chloroplast gene expression and those genes that are likely specific of the new genetic context of secondary endosymbiosis, among which should be a subclass that arose *de novo* in diatoms, i.e. from previously non-coding sequences.

For this aim, the post-doctoral associate will perform comparative genomics analysis to exploit the ~10 complete genomes of diatoms already published and additional genomic resources, soon available, from the 100 diatoms project consortium, from which the host lab is a member. He/she also will have access to transcriptomics and proteomics data and resources generated in the host laboratory (e.g. DiatOmicBase platform to mine diatom omics data) and publicly available data such as the MMETSP- Marine Microbial Eukaryote Transcriptome Sequencing Project (Keeling et al. Plos Biol 2014) and metadata of the Tara Ocean project (Carradec et al., Nat comm. 2018).

To apply, send an email to ingrid.lafontaine@ibpc.fr, before October 1st, 2022. Please include a CV, a cover letter explaining the motivations of your application and your adequacy with the description of the position, along with contact informations of at least two references.

Ingrid Lafontaine Professeure Sorbonne Université

Biologie du Chloroplaste et Perception de la Lumière
chez les Microalgues Institut de Biologie Physico-
Chimique 13 rue Pierre et Marie Curie, 75005 Paris

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RoyalBotanicGardensKew CropDomesticationGenomics

We have an exciting opportunity for a Post Doc to work on the NERC funded project “Evolutionary dynamics of vegetative agriculture in the Ethiopian Highlands: integrating archaeobotanical and genomic science” (<https://gtr.ukri.org/projects?ref=NE%2FW005689%2F1>). You will work with Dr James Borrell and Dr Philippa Ryan at Royal Botanic Gardens, Kew, in collaboration with Prof Dorian Fuller at the Institute of Archaeology, University College London.

Enset is a giant perennial herb that provides the staple food for 20 million people, but outside of Ethiopia, this remarkable banana relative is virtually unknown. Like many tropical clonal crops, which tend to preserve poorly in the archaeological record, enset’s domestication history is poorly understood. Yet today we observe

over a thousand unique landraces, many with traits specialised for disease tolerance, taste, co-products and other useful attributes.

The successful applicant will make a major contribution to understanding how farmers selected and cultivated this diversity, and over what time period, helping to unravel the mystery of enset domestication. This has significant applications in supporting the adaptation of enset and other clonal crops to climate change. The successful applicant will also form part of a vibrant, dynamic and cross disciplinary scientific environment, with access to Kew’s state-of-the-art laboratory facilities and opportunities to develop professional skills for the next stage of their career. This role coincides with a major new collaboration between Kew and the UCL Institute of Archaeology as we apply novel approaches combining genomics and archeobotany.

The ideal candidate will have a PhD in genomics or a related discipline, together with a strong interest in crop evolution and domestication and a track record of research publications commensurate with their career stage. They will be excited at the opportunity to integrate archeobotanical evidence (e.g. phytoliths, macro remains) from sites across the Ethiopian highlands, together with environmental and cultural diversity data to help parameterise genomic models. They will also be confident with developing novel methodologies, bioinformatic analysis, data management and communicating their research through publications and conferences. We particularly welcome applicants that wish to contribute their own ideas and help to shape our research direction.

For informal enquiries please contact Dr James Borrell (j.borrell@kew.org) or Dr Philippa Ryan (p.ryan@kew.org).

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

The salary will be pounds 34,933 per annum (pro rata).

More info: <https://careers.kew.org/vacancy/post-doctoral-research-associate-crop-domestication-genomics-487493.html> Post doctoral Research Associate: Crop Domestication Genomics < <https://careers.kew.org/vacancy/post-doctoral-research-associate-crop-domestication-genomics-487493.html> > The salary will be pounds 34,933 per annum (pro rata). Our fantastic benefits package includes opportunities for continuous learning, a generous annual leave entitlement, flexible working to help you maintain a healthy work-life balance, an Employee Assistance Programme and other wellbeing support such as cycle to work scheme and discounted gym membership. careers.kew.org

Dr. James Borrell
Research Fellow
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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.

James Borrell <J.Borrell@kew.org>

RuhrU ComputationalVirology

The department of Molecular and Medical Virology (working group Computational Virology) of the Faculty of Medicine is looking for a

Postdoctoral Fellow (f/m/d) temporary in full-time (39,83 hrs./week = 100,00 %, 30.04.2027), starting as soon as possible.

The group of Dr. Daniel Todt in the Department of Molecular and Medical Virology at the Ruhr University Bochum is seeking a highly motivated and talented postdoctoral fellow (w/m/d) for our new BMBF-funded (German Federal Ministry of Education and Research) research group in Computational Virology.

Our group combines strong expertise in RNA virus biology and bioinformatics. We study virus-host interactions of hepatotropic viruses, mainly hepatitis E virus (HEV), using -omics data sets. We aim to identify viral mutations associated with treatment failure and understand differential immune responses in patients suffering from chronic or acute HEV infections. Furthermore, we apply machine learning algorithms to identify viral signatures in large transcriptomic datasets. Besides well established Illumina-based protocols, we are currently establishing Oxford Nanopore Sequencing and plan to set-up single cell RNA sequencing in our faculty. Information about our research can be found at: www.virologie-bochum.de/computational-virology/
extent: full-time duration: temporary beginning: as soon as possible time limit: 30.06.2022 Your tasks:

To complement our research team, we are seeking a highly motivated postdoctoral candidate. The candidate will be involved in all aspects of the new group,

including own projects, supervision of Ph.D. and Master students and administration. Ideas for own projects are highly welcome and will be supported. Your profile:

A Ph.D. (or equivalent degree) in bioinformatics, biology or related field with an excellent publication record, appropriate for the career stage; profound knowledge and understanding of virology and cell biology; solid experience in state-of-the-art sequencing techniques; experienced handling of bioinformatic pipelines and basics of script languages; ideally, previous application of machine learning algorithms; high capacity for teamwork; interest in working in an international and interdisciplinary environment; fluency in written and spoken English language is mandatory.

Our offerings:

We offer a medically relevant research topic, interdisciplinary cooperation, flexible working-hours and work within a young and motivated team. Additionally, we strongly support career development and own funding acquisition; challenging and varied tasks with a high level of personal responsibility; team-oriented cooperation in a committed, international and appreciative team; an agile way of working; employment at one of the largest universities in Germany in the University Alliance Ruhr network; a job in the middle of the lively Ruhr metropolitan region with its diverse cultural offerings.

Additional information:

The employment relationship is based on the collective agreement of the L??nder (TV-L). Depending on the fulfilment of the personal and collective agreement requirements, the position is classified in pay group 14 of the TV-L. You can find more information on this under: <https://oeffentlicher-dienst.info/> If the position is funded by third-party funds the employee has no teaching obligation.

Contact details for your application:

Herr Dr. Daniel Todt, Tel.: +49234 32 22463

Travel expenses for interviews cannot be refunded.

For information on the collection of personal data in the application process see: <https://www.ruhr-uni-bochum.de/en/information-collection-personal-data-application-process> . Candidates interested in this position should send their application (cover letter including motivation and an short outline of potential research projects/interests, CV, publication list, list of at least two academic references) as single PDF. We are looking forward to receiving your application with the specification ANR: 576 until 30/06/2022, send by e-mail to the following address:

computational-virology@ruhr-uni-bochum.de

“Gül₂mer, Andri₂” <Andre.Goemer@ruhr-uni-bochum.de>

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

Seattle IPHC Epigenetic Clock Pacific Halibut

Postdoctoral position: Development of an epigenetic clock for aging Pacific halibut (*Hippoglossus stenolepis*)

The International Pacific Halibut Commission (IPHC), an international organization that manages the Pacific halibut resource for the Canadian and US governments with offices in Seattle, WA, is seeking a qualified and highly-motivated researcher for a two-year appointment to assist the IPHC Secretariat in the development of genome-wide DNA-methylation-based methods for aging Pacific halibut as an alternative to current traditional aging methods. This researcher will work with IPHC Secretariat staff in the Biological and Ecosystem Science Branch and in the Quantitative Sciences Branch to develop and validate an epigenetic clock and high-throughput genomic methods for age estimation that will inform the Pacific halibut stock assessment.

The researcher will work with the Biological and Ecosystem Science Branch and with the Quantitative Sciences Branch of the IPHC to develop and validate an epigenetic clock for estimating ages from Pacific halibut fin clip tissue samples routinely collected by the IPHC Secretariat for other genomics projects (i.e. sex identification, population dynamics, etc.). Research will be directed by IPHC Secretariat staff and focus on the following topics:

- * Develop an age estimation method based on the generation of a high-resolution DNA methylation map for Pacific halibut tissue (fin clips)
- * Develop a calibration model comparing age determinations by traditional (i.e. otolith annuli reading) and genome-wide DNA methylation-based methods (e.g. RRBS): development of an epigenetic clock for Pacific halibut
- * Develop predictive age models for Pacific halibut
- * Develop error estimation methods and conduct sensitivity analyses
- * Write scientific reports and assist with and/or author peer-reviewed papers
- * Travel to, attend, and present at conferences and meetings

Applicants should have a Ph.D. in biology, genetics, bioinformatics, or a related field, and a minimum of two years of experience in genomics applied to fisheries and/or marine biology. Specific qualifications to be considered are as follows:

- * Experience in genomics techniques and analyses applied to studies on population-level key life history traits
- * Knowledge of bioinformatics tools for genome- and epigenome-wide analyses
- * Strong quantitative skills, with emphasis on statistics and predictive models
- * Proficiency in R and other relevant programming languages and applications
- * Demonstrated ability to lead a project and excellent research management skills
- * Proficiency in writing scientific reports and papers
- * Experience communicating complex concepts, models, and results through discussion and oral presentation

The annual salary for this position is equivalent to a IPHC-GS-11 level, which carries a salary in the range of \$74,180.12 to \$89,015.09 (2022 rates). depending on experience and demonstrated skills. The IPHC offers a generous benefits scheme including 100% employer-paid medical insurance for the staff member and all immediate family members, life, cancer care, and long-term disability insurance, as well as five weeks paid vacation, 13 days sick leave annually, and a 403(b) program with employer contribution and match. The IPHC is committed to providing its employees with a work environment that is free from unlawful discrimination, harassment, incivility, and retaliation.

Applications are due by 1 August 2022 and may submitted through the IPHC website at <https://www.iphc.int/-the-commission/opportunities>. The IPHC is an International Governmental Organization and as such will consider applicants regardless of nationality. Due to the nature of the work and the organization, a background check is also a condition of employment. Candidates will be selected for an interview based on meeting basic qualifications and additional demonstrated experience. Submission of a current full CV and 3-5 references (contact only) is required. For more information about this position, please email IPHC_Secretariat@iphc.int and cite Job Reference Number 2022-031.

Josep V. Planas, Ph.D. Biological & Ecosystem Science Branch Manager International Pacific Halibut Commission 2320 W. Commodore Way, Suite 300 Seattle, WA, 98199-1287, U.S.A. 206-552-7687 | www.iphc.int Josep Planas <Josep.Planas@iphc.int>

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SouthDakotaStateU PlantInvasionGenomics

The Consortium of Plant Invasion Genomics (CPING; www.invasiongenomics.com) invites applications for a postdoctoral researcher position starting no earlier than August 2022. CPING is an NSF-funded project spanning five universities with joint missions to determine how and why certain plant species become invasive and to train the next generation of botanists to use modern genomic and bioinformatic tools. Specifically, we are reconstructing genomic time series for five focal invasive plant species using herbarium specimens to investigate the roles of colonization history, admixture, and adaptation in the invasion process. CPING also enhances genomics/bioinformatics expertise among EPSCoR states through hosting genomics bootcamps for researchers and teachers, workshops at academic conferences, and our CREU undergraduate internship program.

This position will be based at South Dakota State University in the lab of CPING Co-PI Maribeth Latvis (<https://maribethlatvis.wixsite.com/plantsyst>). Projects will focus on Russian thistle, using historical specimens to examine population structure, admixture, and ploidy through time in the introduced range. Sampling and some genomic data are already in hand. Potential postdoc projects include population genomics of invasion history and admixture with closely related species; inference of ploidy from historical specimens and ecological niche modeling of differing ploidal levels (cytotypes).

While the successful applicant will focus their research efforts on Russian Thistle, they will also have the latitude to pursue independent research interests related to CPING projects. The successful applicant will also collaborate with other CPING labs to leverage the strength of the network to their advantage. Opportunities for outreach and teaching will be available through participation in genomics and bioinformatics bootcamps. We emphasize broad training for professional success and opportunities will be tailored to individual career interests.

Please contact Maribeth Latvis (maribeth.latvis@sdstate.edu) with any questions.

To apply: <https://louisiana.csod.com/ux/ats/-careersite/1/home/requisition/1835?c=louisiana>
“Latvis, Maribeth” <Maribeth.Latvis@sdstate.edu>

TelAvivU-Berkeley AncientSedimentaryDNA

Open call for a post-doctoral researcher on ancient sedimentary DNA

Interested in studying our evolutionary past using ancient DNA recovered from sediments?

We are looking for a motivated post-doctoral researcher to develop computational approaches for the analysis of ancient hominin DNA extracted from sediments

Project description:

In this project, we plan to develop analytical pipelines to the study of ancient hominin nuclear DNA retrieved from sediment samples, and apply them to samples of interest, in order to address questions pertaining to our evolutionary history in novel ways.

The project is a collaboration between the Moorjani lab (<https://moorjanilab.org/>) at the University of California, Berkeley, and the Slon lab (www.slonlab.com) at the University of Tel Aviv, Israel, and will involve exchange of ideas and travel between the two labs.

The Moorjani lab focuses on using statistical and computational approaches to study questions in human genetics and evolutionary biology. A central aim in the lab is to understand the impact of evolutionary history on genetic variation and to apply this knowledge to learn about human history and biology. To this end, we use genetic data from ancient specimens and present-day species to learn about: (1) when key events (such as introgression and adaptations) occurred in human history, (2) how different evolutionary processes such as mutation rate evolve across primates, and (3) how we can leverage these patterns to identify genetic variants related to human adaptation and disease. The research in the lab involves both development of new methods and large-scale genomic data analysis.

The Slon lab studies the genetic makeup of prehistoric and proto-historic populations, by implementing and pursuing the development of state-of-the-art methodology suited to face the challenges of DNA preservation over time. One main focus of the laboratory is the recovery of ancient DNA from sediments deposited at archaeological sites - as doing so provides the possibility

to study the genomes of ancient humans even in the absence of their physical remains, and to study the environment in which they lived. We strive to develop laboratory and analytical techniques to improve the usability of sediments as a source of paleo-genetic data.

Required qualifications:

- PhD in biology, computational sciences, genomics, population genetics, or a related field
- Experience with programming (in C, Python, R, or language of your choice) and data analysis
- Experience working with ancient DNA is an advantage, but not required.

Timelines and contract:

The position will be fully-funded for a minimum of two years. Starting date is flexible, and the position will remain open until filled. The chosen applicant will be hired through the Slon lab at Tel Aviv University.

The Slon Lab at Tel Aviv University is part of the Departments of Anatomy and Anthropology and of Human Molecular Genetics and Biochemistry at the Sackler Faculty of Medicine; and is affiliated with the interdisciplinary Dan David Center for Human Evolution and Biohistory Research. Tel Aviv University is the largest research university in Israel, with world-class researchers across the spectrum of science, humanities and art studying all aspects of the human past. Tel Aviv itself is a lively beachside city.

Interested?

Please send a CV, a letter of motivation, and the names and contact information of three references to Dr. Priya Moorjani <moorjani@berkeley.edu> and to Dr Viviane Slon <viviane@tauex.tau.ac.il>

Viviane Slon <viviane@tauex.tau.ac.il>

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TempleU Phylogenetics

Postdoc positions in molecular and cellular phylogenetics

We have several postdoctoral positions in molecular evolution and phylogenetics. The focus of research will be on developing innovative computational methods to reconstruct phylogenetic trees from large collections of

sequences, particularly genome variation profiles of cells from an individual, pathogens, populations, and closely related species. You will join a dynamic team of researchers and developers with extensive experience developing methods, building tools, and conducting big data analysis (see publications in <http://www.kumarlab.net/publications>). You will have extensive input into the project design based on your skills and background. Our computational labs are in the Institute for Genomics and Evolutionary Medicine (iGEM) which offers an exceptional intellectual environment for your professional development (<http://igem.temple.edu>). Interested candidates should send a resume by email (s.kumar@temple.edu).

Sudhir Kumar and Sayaka Miura IGEM and Biology Dept. Temple University, Philadelphia, PA, USA
s.kumar@temple.edu Sayaka.miura@temple.edu

Sudhir Kumar <s.kumar@temple.edu>

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

TowsonU Evolutionary Biology

We are inviting applications for postdoctoral training with a planned transition to a tenure-track Assistant Professor position (https://towson.taleo.net/careersection/fac_ex/jobdetail.ftl?job=2200007C; TU Search Number: FCSM 3552).

Position: The Jess and Mildred Fisher College of Science and Mathematics (FCSM) invites applications for postdoctoral training with a planned transition to a tenure-track Assistant Professor position. The successful candidate will have an initial appointment at the rank of Research Assistant Professor in the Department of Biological Sciences.

Qualifications: Ph.D. in Biological Sciences by the term of appointment is required. Strong candidates will have 1-2 years of current or recent postdoctoral experience. Demonstrated commitment to diversity and excellence in teaching and demonstrated scholarly ability are required. Candidates must have a research background and expertise in the biomedical sciences (e.g., cell and molecular biology, microbiology, immunology, virology, physiology, genetics). Strong candidates will have experience mentoring and supervising research students.

The candidate must successfully complete a two-year fellowship before the planned transition to a tenure-

track position. The purpose of the Fellowship is to support promising scholars who are committed to diversity in academia. We particularly invite applications from members of groups historically underrepresented in the professoriate.

Review of applications begins in August 2022, and continues until the position is filled. The candidate must successfully complete a two-year fellowship as a Research Assistant Professor before the planned transition to a tenure-track position. The purpose of the Fellowship is to support promising scholars who are committed to diversity in academia. We particularly invite applications from members of groups historically underrepresented in the professoriate.

Steve Kimble

Clinical Assistant Professor, Towson University

skimble@towson.edu

<https://www.towson.edu/fcsm/departments/biology/facultystaff/skimble.html> skimble@towson.edu

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

UAlabama Birmingham GeoEvoGenomics

The Dolby lab at UAB (University of Alabama at Birmingham) is seeking a motivated postdoc to work in genomics, geo-genomics, or Earth-life evolution (to start between Aug 2022 - Feb 2023).

Our diverse group uses field and computational approaches to study how geologic/climatic history shapes the evolution and speciation of lineages using 'omics and modeling. We emphasize collaboration, creativity, and data/knowledge integration across disciplines.

Several large, complex datasets are available from NSF-funded projects (#1925535, #2107975); new projects/elaborations are welcome within core themes of the group, including: 1. Generalizable measures of landscape change or genomic divergence that can be compared across systems 2. Integrative modeling (e.g., approximate Bayesian computation, structural equation modeling, SLiM) using genomic and abiotic data 3. Information theory applied to genomic data (e.g., <https://doi.org/10.1101/2021.08.30.458276>) 4. Speciation genomics in settings where changes in the physical landscape are constrainable (agnostic to taxon/location)

5. Local adaptation across Alabama river networks & caves

Lab culture - we maintain a highly inclusive, collaborative, and supportive environment with a large, diverse collaborator network. Trainees lead projects and will present at international conferences and benefit from dedicated professional mentorship.

Desired qualifications: 1. strong genomic OR quantitative/modeling skills (or eagerness to learn) 2. ability to work independently as well as part of a team 3. clear written and verbal communication skills 4. passion for working across disciplines and for new ideas

Location - Flexible work schedule is possible. Birmingham is a family-friendly and vibrant cultural hub with low cost of living. Excellent access to nature/outdoors. Forbes named UAB America's best large employer in 2021.

To apply - Email gdolby@uab.edu with your CV and a brief cover letter detailing your experience to date and your interest in this group/position by Sept 20. Questions by email are encouraged. Must have PhD in a STEM field by start date. Funding is available for up to 3 years, contingent on satisfactory progress.

Greer Dolby <gdolby@asu.edu>

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UEasternFinland HumanSexualSelection

The University of Eastern Finland is inviting applications for a Postdoctoral Researcher/Project Researcher (Mechanisms of cryptic female choice in humans) position. The position will be filled for a fixed term from 1.9.2022 (or as agreed, but at the latest 1.11.2022). Please find more information below and submit your application no later than 4.8.2022.

We are seeking a motivated Postdoctoral/Project Researcher to work in our project "Towards molecular-level understanding of fertilization and sexual selection" (funded by the Academy of Finland, more information from research: <https://gamcomgroup.wordpress.com>). As our new researcher, you will be working in the Department of Environmental and Biological Sciences of Faculty of Science and Forestry. The position is located in Joensuu and/or

Kuopio campus, Finland.â€

The Postdoctoral/Project Researcher will participate in experimental research that aims to clarify the mechanisms of cryptic female choice in humans. Depending on the expertise of the researcher yourâ€™main responsibilitiesâ€™can include e.g.:

* Clarifying molecular (RNA, DNA, or protein) level mechanisms of cryptic female choice, * Conducting sperm chemotaxis/selection (cryptic female choice) assays, * Phenotypic measurements (e.g. motility, morphology and DNA integrity) of â€™ and â€™selectedâ€™ sperm, or * Identification of candidate genes for male female reproductive incompatibility and cryptic female choice from genomic databases.

Fertilization is one of the most complex and enigmatic biological processes, which severely hinders our understanding about reproduction, evolution and beginning of life. It has traditionally been assumed that fertilization is a completely unbiased process, leading to random fusion of gametes. Against this assumption, our recent findings have indicated that gametes often combine non-randomly, which bias fertilization towards particular (compatible) reproductive partners (see e.g. <https://doi.org/10.1098/rspb.2018.0836> and <https://doi.org/10.1098/rspb.2020.1682>). However, the molecular-level mechanisms of such gamete-level sexual selection have remained unclear. The primary aim of our research is to clarify these mechanisms in humans and this way also gain better understanding of the mechanistic basis of fertilization and infertility (see <https://doi.org/10.1093/humrep/deab221>).

The position will be filled until 31 December 2023, starting from 1 September 2022 (or as agreed, but at the latest 1.11.2022).

More information and instructions how to apply here:

https://rekry.saima.fi/certiahome/-open_job_view.html?did=5600&jc=16&id=-000013595&lang=en Best regards, Jukka

Jukka Kekäläinen (PhD, Associate professor) University of Eastern Finland Department of Environmental and Biological Sciences P.O. Box 111 80101 Joensuu Finland p. +358 29 445 1004 email: jukka.s.kekalainen@uef.fi

Jukka Kekäläinen <jukka.s.kekalainen@uef.fi>

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UEdinburgh GenomicBreedingOffForages

Hi,

We are looking for a new post-doc colleague to work with us on the exciting GenoForage project (Genomic breeding of forages) - a combination of quantitative & population genetics and applied breeding.

The post is funded for 2 years by a leading plant breeding organisation and The University of Edinburgh. We will support you to develop your future options through interactions with the HighlanderLab at The Roslin Institute <https://www.ed.ac.uk/roslin/highlanderlab> The work will include:

- i) gathering and analysing existing and simulated data to estimate additive and dominance genetic associations between genomic markers and multi-trait phenotypes;
- ii) analysing past genetic trends in means, variances, and correlations for additive and dominance components of genetic value, including inbreeding depression and heterosis;
- iii) developing a breeding strategy that will leverage genomic data to shorten long breeding and development times as well as to optimise crossing plans for total genetic value, hence minimising inbreeding depression; and
- iv) interaction with the HighlanderLab, including other research and development opportunities.

Apply: <https://t.co/7Y5x1Rhclv> Post details: https://uoesharepoint.com/:w:/s/jobdescriptionlibrary/-EYDGLn_92Y1Bnp8gskrJpYEB_5yLua9nsa6MrOh4Tea6vw#xd.co_f%3
Contact gregor.gorjanc@roslin.ed.ac.uk for any further clarification. You have to apply via the link above.

With regards!

University of Edinburgh Gregor Gorjanc, PhD The Roslin Institute Group leader (Reader) Easter Bush twitter: @GregorGorjanc EH25 9RG mail: gregor.gorjanc@roslin.ed.ac.uk Scotland, UK web: www.ed.ac.uk/roslin/highlanderlab Gregor Gorjanc <gregor.gorjanc@roslin.ed.ac.uk>

UInnsbruck OrganismicAnimalEvolution

PostDoc: UInnsbruck.OrganismicAnimalEcology

MOLECULAR ECOLOGY, DEPARTMENT OF ECOLOGY, UNIVERSITY OF INNSBRUCK PostDoc position, 20 hours/week, 6 years

The Molecular Ecology group (<https://molecular-ecology.at/>) of the Department of Ecology seeks to hire a PostDoc with experience in organismic animal ecology. The position starts in summer/autumn 2022 (exact starting date flexible; 20 h/week employment for 6 years). Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: <https://molecular-ecology.at/research-topics/>.
Responsibilities 1. Participation in organisation and administration 2. Independent research; publishing 3. Contact and cooperation with academics nationally and internationally 4. Independent teaching

Selection criteria A. PhD degree in life sciences B. proven research experience with organismal animal ecology, preferably on arthropods (ideally social insects) or vertebrates C. creative problem-solving skills D. ability to work as part of a team as well as independently E. organisational talent F. ability to work under pressure G. very good knowledge of English and ideally German

Salary The monthly gross salary is 2031 EUR (to be paid 14 times a year) for a 20 h/week employment (for 6 years). The contract includes health insurance and 5 weeks of holidays annually.

How to apply To apply, please submit online (https://lfuonline.uibk.ac.at/public/-karriereportal.details?asg_id_in=12712) the following materials: a cover letter, systematic point-by-point replies as to your readiness for the responsibilities and how you meet the selection criteria, brief statement of research interests, curriculum vitae, a complete list of publications, and - if possible - two reference letters.

Applications must be submitted until 27 June 2022.

The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-

employment background check.

The research institution and its environment The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers a vibrant research atmosphere. It has 28,000 students and 5,500 staff members. Innsbruck is situated in the Alps and very close to Switzerland, Germany and Italy; scenery and outdoor recreation are fantastic.

More information needed? For more information, please contact: Birgit C. Schlick-Steiner <birgit.schlick-steiner@uibk.ac.at>

“Schlick-Steiner, Birgit Christiane” <Birgit.Schlick-Steiner@uibk.ac.at>

UKansas EvolutionaryGenomicsSpecialist

UKansas.EvolutionaryGenomicsSpecialist

The University of Kansas Biodiversity Institute (BI) is hiring a postdoctoral fellow to serve as a genomics specialist for the institute. The fellow will conduct collaborative research while overseeing a shared-use molecular laboratory. This lab is used by diverse and highly interactive scientists who are addressing a range of research questions in systematics and evolution using organisms from across the tree of life (invertebrates, microbes, plants, or vertebrates). The genomics specialist is responsible for developing and conducting research projects independently or in collaboration with BI scientists and managing the day-to-day operations of the laboratory.

The KU Biodiversity Institute studies past and present life on Earth to educate, engage and inspire. The institute, including the KU Natural History Museum, accomplishes this mission through the acquisition, curation, and study of collections of plants, animals, fossil material, and cultural artifacts for undergraduate, graduate, and public education, as well as research and public professional service.

As a premier biodiversity research center and museum, the KU Biodiversity Institute is committed to an open, diverse, and inclusive environment that nurtures the growth and development of all. The BI believes that a diversity of values, interests, experiences, and intellectual and cultural viewpoints enrich learning and our workplace. As such, the BI actively seeks applications from members of groups underrepresented in higher

education.

REQUIRED QUALIFICATIONS: 1. Ph.D. in evolutionary biology, genetics, bioinformatics, or related field from an accredited university. 2. Research experience and ongoing interest in evolution, systematics, population genetics, or related disciplines as documented by publications in peer-reviewed outlets. 3. Two or more years practical experience with basic laboratory methods such as DNA extraction, PCR, and DNA sequencing. 4. Experience with the acquisition of genomic data using parallel-sequencing platforms (e.g., RNAseq, ddRAD, target capture, whole-genome sequencing). 5. Experience with analytical and computational analyses of genomic sequence data.

PREFERRED QUALIFICATIONS: 1. Experience with management of molecular laboratory facilities. 2. Demonstrated ability to work collaboratively with other researchers.

ADDITIONAL CANDIDATE INSTRUCTION: Only complete application packages submitted online will be considered. A complete application includes the online application form, a letter of application outlining interest in and qualifications for the position, curriculum vitae, name and contact information for three professional references.

Review of applications will begin 30 June 2022 and continue until a qualified pool of applicants is identified.

Estimated start date is 22 August 2022.

Link to the position description and how to apply.

https://sjobs.brassring.com/TGnewUI/-Search/home/HomeWithPreLoad?PageType=-JobDetails&partnerid=25752&siteid=5541&AReq=-22361BR#jobDetails=4548328_5541 "Smith, Wm Leo" <leosmith@ku.edu>

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UKentucky InsectRNAiResistance

Summary: The Teets Lab at the University of Kentucky is seeking a postdoc to work on environmental factors that influence the efficacy of insecticidal RNAi, with the goal of identifying conditions that may facilitate the evolution or resistance. Molecular skills and experience working with insects a plus but not essential. Our lab is a large, collegial group with diverse interests, and

we welcome people from all backgrounds to apply. See details below!

Postdoctoral Associate in Insect RNAi Technology Location Department of Entomology University of Kentucky, Lexington, KY

Contact Nick Teets Associate Professor Email: n.teets@uky.edu Phone: (859)-257-7459 Lab website: www.teetslab.com S. Reddy Palli Professor and Chair Email: rpalli@uky.edu Phone: (859)-257-7450 Lab website: <https://entomology.ca.uky.edu/pallilab> Description: The Teets and Palli labs at University of Kentucky are seeking a postdoctoral associate to lead a project on genetic and environmental factors that influence the efficacy of RNAi as a pest control strategy. Using the Colorado potato beetle as a model, the postdoc will determine the extent to which temperature and nutrition influence the toxicity of insecticidal RNAi and identify mechanisms that underly variation in RNAi efficacy across environments. This work will inform strategies to improve the effectiveness of RNAi in variable environments and will contribute to risk assessment and resistance management of this technology. Specific duties will include designing and conducting bioassays to test RNAi in different environments, preparing data for presenting at conferences and publishing in peer-reviewed scientific journals, and supervising undergraduate students. The successful candidate will be primarily based in the Teets lab, which has expertise on insect environmental physiology and how it influences pest control, of insects, and will also work closely with the Palli lab, which is a leading authority on insect RNAi technologies.

Qualifications: Applicants should have a PhD in entomology, molecular biology, or a related field. Strong molecular skills and experience working with plant pests are preferred but not required. Applicants should have a demonstrated record of research productivity, as evidenced by peer-reviewed publications, conference presentations, and/or grant funding. Desired qualifications include the ability to work in a team, experience mentoring undergraduate students, and strong oral and written communication skills.

Location: The Department of Entomology at University of Kentucky is consistently ranked in the top 10 nationally and features an excellent mix of basic and applied research. The department has a proven track record of job placement in a variety of sectors, including academia, industry, government science, and extension, to name a few. Lexington, KY is an affordable mid-sized city that is family friendly and ranks 10th in the US in the percentage of residents with a college degree.

Start Date and Compensation: The position is anticipated to be available to start as early as September

2022, but the start date is negotiable. The position includes a minimum salary of \$47,500 plus benefits. Benefits for Postdoctoral Scholars are summarized here: <https://www.uky.edu/postdoc/benefits>. Application Procedures: Interested applicants should create a single PDF containing 1) a cover letter summarizing research interests, professional experience, and career goals, 2) a CV including a complete list of publications, and 3) names and contact information for professional references. Submit application materials at the following link: <https://forms.gle/BwXwGWKAm4qH6owj7>. Review of applications will begin August 10, 2022 and will continue until a suitable candidate is identified.

Nick Teets Associate Professor

Department of Entomology University of Kentucky
Phone: 859-257-7459 Office: 317 Plant Sciences Building
Web: www.teetslab.com Email: n.teets@uky.edu

n.teets@uky.edu

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ULausanne 2PDF PhD EvolutionaryGenomics

2 postdoctoral and 1 PhD position: Evolutionary genomics/bioinformatics/behaviour

University of Lausanne, Department of Ecology and Evolution

We are looking for PhD students and postdoctoral researchers to work on three lines of research: 1. Evolutionary comparative genomics. We have sequenced and generated RNAseq data for queens and workers of ca. 80 ant species (Romiguer et al. 2022 Current Biology). These data are available for a range of analyses related to social evolution and the study of the genetic regulations of differences between castes. 2. Ant evolutionary genomics. We previously identified a supergene controlling social organization in the fire ant *Solenopsis invicta*. We recently sequenced five closely-related species and found that the same genomic element also controls variation in social organization in these species. Our next goal is to use bioinformatic tools to study how this large non-recombining region has evolved. 3. Ant behaviour. To study the evolution of division of labour, we use a newly-developed automated behavioural tracking system. This system can reliably track the position, behaviour and

interactions of hundreds of ants many times per second over multiple months. We have also developed a robotic system which allows targeted interaction with individual ants within the tracking system. We are also developing an automated behavioural quantification system based on body pose estimation of the ants which, together with deep learning methods, will yield large scale data on several types of behaviour-types.

These positions are funded by ERC and Swiss NSF grants. Other projects on social behaviour are also possible if they fit the research interests of our group: <http://www.unil.ch/dee/page7717.html> The Department of Ecology and Evolution is a well-funded and vibrant research institution, with superb facilities: <http://www.unil.ch/dee/keller-group> Applications should comprise a CV, a list of publications, 1 page describing why you are interested in joining our group and contact information for three referees. Only complete applications will be considered. Applications should be sent to laurent.keller@unil.ch before August 21, 2022.

Laurent Keller Biophore University of Lausanne 1015 Lausanne

<http://www.unil.ch/dee/keller-group> Laurent Keller
<laurent.keller@unil.ch>

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ULodz Poland CrustaceaBiodiversity

Post-doc position in the project: BIOdiversity PAtternS and Scale: the case of peracarid Crustacea from south-eastern Australia (BIOPASS)

A postdoctoral position is available in the Marine Biology Research group at Faculty of Biology and Environmental Protection, University of Lodz.

Project: The main objective of the project addresses the lack of fundamental knowledge about biological diversity patterns in the benthic marine ecosystems off the south-eastern Australian coast. This project is an interactive approach that focuses on identification and assessing local diversity of peracarids (Tanaidacea and Isopoda) from SE Australia to point the environmental factors shaping the diversity over latitudinal and bathymetric gradients.

The project is held in University of Lodz (Poland) and

forms a close collaboration with the University of Valencia (Spain) and Melbourne Museum (Australia).

Candidate: The postdoc is expected to apply methods for species delimitation (genetic/ genomic) and testing connectivity among populations of peracarids crustaceans from SE Australia, NW and Central Pacific, N Atlantic. The obtained data are supposed to be interpreted with taxonomical findings (cooperation with taxonomists) to draw the general model of distribution (cooperation with ecologists). Finally, the genetic results will be employed to investigate phylogeny and phylogeography of the most diverse taxa (families/genera).

We seek an enthusiastic candidate with good communication skills, experience in genetics, systematic, and phylogenetics. We are looking for geneticist who is fascinated by crustaceans or taxonomist ready to work with small crustaceans and will to learn genetic.

The candidate is expected to work both independently and as part of a large research team, and may supervise technical staff and students.

The candidate should have: Minimum PhD in biology, genetics or ecology obtained in between 2015 (and 2022)

The position is fully funded. It will be initially for 1 year, but funding available to extend it further.

If you would like to discuss the project further, please feel free to contact with prof. Magda Błażewicz (magdalena.blazewicz@biol.uni.lodz.pl). To apply, please send a CV and cover letter stating qualifications, previous work and motivation for the contact as above.

Prof. Magdalena Błażewicz Editor Polish Polar Research Department of Invertebrate Zoology and Hydrobiology Faculty of Biology and Environmental Protection University of Łódź ul. Banacha 12/16 90-237 Łódź
T: 42635 4297 E:magdalena.blazewicz@biol.uni.lodz.pl

Magdalena Błażewicz
<magdalena.blazewicz@biol.uni.lodz.pl> Magdalena Błażewicz <magdalena.blazewicz@biol.uni.lodz.pl>

UMainz EvolutionarySingleCellGenomics

The Institute of Organismic and Molecular Evolution at the University of Mainz, Germany, invites applications for a

Postdoc position for evolutionary single-cell genomics

(Salary level TV-L E13, 100%)

in the department of Evolutionary Plant Sciences, headed by Prof Shuqing Xu.

The successful candidate may start on the 1st of Nov 2022, or as early as possible. The salary will initially be provided for three years, with the possibility of extension for another three years. Supported by other group members, the candidate will work on the evolution of gene functions and regulations at cellular level using the state-of-the-art single-cell genomic tools. During the project, the candidate will mature his/her scientific skills and develop independence in project planning and management skills. The candidate is encouraged to apply for additional third-party funding to establish his/her own subgroup.

Requirements: We are looking for a highly motivated researcher with a doctoral degree, or an equivalent thereof, in biology, evolutionary genetics, bioinformatics or computer science. The candidate is expected to design, conduct and organize the projects independently. A training background in bioinformatics, evolutionary genetics or single-cell sequencing is preferred. Applicants must demonstrate experience in statistics and genomics. Experience with molecular biology, epigenetics and computational modelling are a plus. Our group consists of people of various nationalities and teamwork is essential for all projects in the group. Therefore, excellent communication skills, as well as proficiency in spoken and written English, are expected. Good knowledge of German is a plus.

Excellent infrastructure and work conditions are available at the University of Mainz. The working language of the lab is English. For further information, please contact shuqing.xu@uni-mainz.de.

The University of Mainz hosts many excellent scientific institutions (<http://www.uni-mainz.de/eng/>), and Mainz is a historic city located on the Rhine River with many students and a rich social and cultural life.

Applications must be in English and include:

- (1) a motivation letter stating the research interests with reference to the stated requirements in no more than two pages,
- (2) a detailed CV including academic and extracurricular achievements, as well as details of all research experience,
- (3) an abstract of the PhD thesis, and
- (4) contact details of at least two referees. Applicants should send their documents in one single PDF file to Prof Shuqing Xu (shuqing.xu@uni-mainz.de) with the subject line "Evolutionary Single-cell Genomics Postdoc Position - Your Name". The application review will commence on 31st July 2022. The position will remain open until filled.

Prof. Dr. Shuqing Xu Institute of Organismic and Molecular Evolution (IomE) Johannes Gutenberg University Mainz Biozentrum I Hanns-Dieter-Hüsch-Weg 15 D-55128 Mainz Germany E-mail: shuqing.xu@uni-mainz.de

UMississippi Frog Transcriptomics

Postdoctoral Research Associate Position in Transcriptomics/Bioinformatics

We seek a highly motivated Postdoctoral Research Associate with a strong background in transcriptomics to work in collaboration with Drs. Christopher Leary, Lainy Day, and Susan Balenger in the Department of Biology (biology.olemiss.edu) at the University of Mississippi (<https://www.olemiss.edu/>). The successful candidate will assist with NSF funded research aimed at understanding how changes in gene dosage associated with polyploidization in the gray treefrog complex impact neuroendocrine regulation. The candidate must have extensive 1) benchtop experience working with RNA and 2) bioinformatic experience including de novo transcriptome assembly and analysis of population level differences in gene expression. Experience with both long and short read sequencing is a plus, as the candidate will, in part, be responsible for the assembly of several high-quality reference transcriptomes combining data from both PacBio and Illumina platforms. The successful candidate is also expected to be directly involved in field data collection from populations of frogs across the eastern United States and broader impacts initiatives aimed at training high school, undergraduate, and graduate students. Previous experience in endocrinology or neurobiology, radioimmunoassay procedures, immunocytochemistry, or brain sectioning is highly desirable but not required - these facets of the research can be learned in the sponsoring labs. The candidate will be expected to present at scientific conferences and assist in preparing manuscripts for publication in high-quality peer-reviewed journals.

Required Qualifications:

Ph.D. focusing on transcriptomics with expertise in bioinformatics and RNAseq data. This position is for a term of up to four years with a competitive 12 month salary and a full benefits package. Applicants should submit (1) a cover letter/statement of interest, (2) CV, (3) two recent publications demonstrating the required background and expertise and (4) contact information

for three references. Application materials should be submitted to: Careers.olemiss.edu.

Please send inquiries to Christopher Leary (cyleary@olemiss.edu). Proposed Start Date: August 2022 or as early as possible.

EEO Statement

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

Background Check Statement

The University of Mississippi is committed to providing a safe campus community. UM conducts background investigations for applicants being considered for employment. Background investigations include a criminal history record check, and when appropriate, a financial (credit) report or driving history check.

Susan Balenger, PhD Assistant Professor Dept. of Biology University of Mississippi <http://susanbalenger.weebly.com/> balenger@olemiss.edu

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UOxford Phytoplankton Evolutionary Genetics

Postdoctoral Research Assistant in Evolutionary Genetics of Calcifying Phytoplankton at the University of Oxford (United Kingdom) Vacancy ID : 158472 Salary ($\ddot{i}_i \frac{1}{2}$) : $\ddot{i}_i \frac{1}{2}$ 33,309 - $\ddot{i}_i \frac{1}{2}$ 40,927 per annum Fixed-term (3 years) This post is available from 1 December 2022 or as soon as possible thereafter Application Closing Date & Time : 29-Jul-2022 12:00 UK time. See URL link below to apply Contact Email : personnel@earth.ox.ac.uk

This project will focus on calcifying phytoplankton, such as coccolithophores that are a fundamental component of the marine carbon cycle. The project will combine evolutionary genetic and paleontological inference for estimation of past species abundance of key phytoplankton which control the CO₂ sink in the oceans. The work

on the project will involve evolutionary genetic analyses of already existing and newly generated population genomic data to (i) shed light on microevolutionary processes in extremely large populations of marine phytoplankton and (ii) infer past species abundance through time, which will help to significantly improve paleoclimatic understanding of biological drivers of global climatic change.

The post will be based in the Earth Sciences Department (<https://www.earth.ox.ac.uk>), where the post holder will be part of the Oceanbug group, which also includes scientists that collaborate between the Department of Plant Sciences, Chemistry and among others. They will report to Prof Rosalind Rickaby and to Prof Dmitry Filatov, and will provide guidance to junior members of the research group including PhD students.

You will be responsible for growing cultures, extracting DNA and preparing high-throughput genome sequencing at the Oxford genomics facility. You will perform bioinformatic and evolutionary genetic analyses of existing and newly generated population genomic datasets of calcifying phytoplankton. You will collaborate in the preparation of research publications, manage your own academic research and administrative activities, adapt and improve research methodology and experiment design where necessary and present papers at national and international conferences and meetings. You will hold, or be close to completion of, a PhD/DPhil evolutionary genetics/genomics together with relevant experience in genomics and evolutionary genetics. You must also have excellent communication skills including the ability to write for publication, present research proposals and results, and represent the research group at meetings. You will also have a demonstrated willingness and ability to collaborate with other researchers in a multi-disciplinary international environment.

For further details please see the job description: 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=158472 Prof. Dmitry A. Filatov, PhD Professor of Evolutionary Genetics, Department of Plant Sciences, University of Oxford, South Parks Road, Oxford OX1 3RB United Kingdom

Dmitry Filatov <dmitry.filatov@plants.ox.ac.uk>

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UtrechtU Two BiodiversityAI

At Utrecht University (NL) a new research unit (Quantitative Biodiversity Dynamics) has two Postdoctoral positions available focussed on the application and development of AI-based methodology towards quantifying the relative importance of processes shaping biodiversity and forecasting of biodiversity dynamics, with challenges ranging from taxonomical identification to questions on processes shaping ecological communities, management and conservation. For more information or to apply, please visit <https://www.uu.nl/en/organisation/working-at-utrecht-university/jobs/-two-postdoctoral-positions-ai-in-ecology-10-fte>. Best, Edwin.

Dr. E.T. (Edwin) Pos|Scientific Director Utrecht Botanic Gardens|Utrecht University|Address Gardens: Budapestlaan 17, 3584 CD Utrecht|Postal Address: P.O.Box 80162, 3508TD Utrecht, The Netherlands|+31(0)6 3435 6984|+31(0)30 2531826|e.t.pos@uu.nl|botanische.tuinen@uu.nl|uu.nl/botanischetuinen us on Facebook|Twitter|Instagram

“Pos, E.T. (Edwin)” <E.T.Pos@uu.nl>

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U Vermont Grass Flowering Time Evolution

Postdoc: Evolution of temperature-regulated flowering time in grasses

A two-year postdoctoral position is available in the Preston lab at the University of Vermont to work on the evolutionary genetics of high and low temperature-regulated flowering in grasses.

Review of applications will begin early August 2022 until the position is filled.

OVERVIEW:

The Preston lab is looking for a biologist with a strong interest in the macroevolution of plant phenology from

a developmental, genomic, and ecological perspective. Applicants should have a PhD in evodevo, plant adaptation, plant genomics, phylogenetics, bioinformatics, or equivalent, and should have a strong research record in their field. The position will mainly focus on analysis of genomic and transcriptomic datasets, but might also involve experiments to reveal and validate candidate genes implicated in flowering time evolution. The candidate will have the opportunity to interact with collaborators at the Norwegian University of Life Sciences.

HOW TO APPLY:

To apply, please send a single PDF containing a current CV, the name and contact details for two referees, and a cover letter explaining your suitability for the position to Dr. Jill Preston (Jill.Preston@uvm.edu). Informal inquiries are also encouraged. Applications will be considered until the position is filled, with a start date as early as January 2023.

Best regards,

Dr. Jill Preston (she/her) Department of Plant Biology
University of Vermont 111 Jeffords Hall 63 Carrigan
Drive Burlington, VT 05405 USA

<https://www.uvm.edu/cals/plantbiology/profiles/jill-preston> Jill.Preston@uvm.edu

UVictoria SalmonGenomics

University of Victoria, Department of Biology

The Owens and Koop Labs at the University of Victoria are currently seeking a post-doctoral fellow (PDF) to work on a project entitled “Landslide Impact on Flow Dynamics, Fish Migration and Genetics of Fraser River Salmon”. The PDF will lead an effort to understand the impacts of the 2018 Big Bar Landslide on the genetics of Fraser River Salmon (see Executive Project Summary: <https://www.sfu.ca/content/dam/sfu/evsc/PDFs/-Employment/Executive%20Project%20Summary.pdf>). The landslide blocked the Fraser River to salmon passage, potentially having significant impacts to salmon populations in the Northern Basin. The project is led by a large group of multi-disciplinary investigators from Simon Fraser University, University of Northern British Columbia, University of Victoria, Durham University, and University of Massachusetts-Amherst, working in collaboration with the Department of Fisheries and Oceans Canada, Hakai Institute, Fraser Basin Council, and the Fraser Salmon Management

Council.

We seek a candidate who can lead research on the following topic:

Genetic selection by hydraulic barriers. The post-doc will lead molecular genetics work to prepare hundreds of Pacific salmon samples for whole genome resequencing. They will also lead bioinformatic analyses that use the resulting sequence data. The goal of this work is to understand the effect landslides may have had on population genetic composition of sites above the landslide, and to find specific alleles that may have been selected for or against from this migration blockage.

The PDF will be part of a larger cluster of post-docs and research staff appointed at Simon Fraser University investigating the impacts of landslides and flow dynamics on salmon migration and evolution. Other PDFs on the project will lead research on i) The chronology of landslides in the Fraser Basin; ii) Linkages between bedrock canyon geometry and landslide susceptibility; iii) Flow dynamics in bedrock canyons; iv) Linkages between flow dynamics and fish migration; and v) Fish migration and hydraulic barriers.

Funding is available for one year with a possible extension for up to three years. Candidates should have experience with molecular genetics, genomics, next-generation sequencing data, and bioinformatics. The project provides opportunities for candidates to gain experience working at the intersection of genomics, evolutionary biology, salmon ecology and life history, and geomorphology, within a large group of 15 research collaborators. With this comes additional opportunities to mentor graduate students, lead presentations and discussions within a variety of settings and platforms, and gain experience communicating complex science with real-world implications.

UVic is a short walk from the beach, and minutes from both downtown Victoria and temperate rainforest hiking trails. UVic has a long history of fisheries research and salmon genomics and is a stimulating environment in which to learn and do research. UVic is an equity employer and encourages applications from all qualified individuals including women, persons with disabilities, visible minorities, Indigenous Peoples, people of all sexual orientations and gender identities, and others who may contribute to the further diversification of the university. We acknowledge with respect the Lkwungen peoples on whose traditional territory the university stands and the Songhees, Esquimalt and WSÁNEĀ peoples whose historical relationships with the land continue to this day.

To apply for a position please send a cover letter de-

scribing your interests and experience, CV and a list of three references to grego@uvic.ca. Informal inquiries and questions may be addressed to Gregory Owens at the same email address.

Review of applications will begin immediately and continue until the positions are filled.

Start date is July 2022, but is negotiable.

Gregory L. Owens PhD Assistant Professor, Department of Biology, Faculty of Science, University of Victoria Office: 040 Cunningham Building Website: owensgl.github.io

Gregory Owens <grego@uvic.ca>

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UWisconsin Milwaukee Conservation Genomics Hawaiian Monk Seal

Postdoctoral position: Conservation genomics of the endangered Hawaiian monk seal

Latch Laboratory, University of Wisconsin-Milwaukee

We seek a highly motivated candidate with a background in population genomics to fill a postdoctoral researcher position. The objective of this project is to develop and validate a robust SNP genotyping panel for consistent and efficient genotyping of Hawaiian monk seals, using genomic data we have generated. The developed panel will then be used to address questions related to inbreeding, parentage, and conservation management. This position is based in the Latch Lab at the University of Wisconsin-Milwaukee (<http://www.uwm.edu/~latch>), though the successful candidate will work with federal and academic collaborators. The appointment is currently funded for 1 year, with a competitive salary of \$55,000 plus full benefits.

Responsibilities: - Bioinformatic analysis and interpretation of genome sequence data - Simulations to support bioinformatic analyses - Laboratory work to generate additional whole genome resequencing data as needed - Preparing manuscripts as lead author, assisting with preparation of reports for relevant stakeholders, and contributing to grant proposals to support novel projects - Coordination and communication with research team and collaborators

Qualifications: - PhD in population genetics, molecular

ecology, bioinformatics, or a related field - Proficiency in R programming language - Experience working with high-throughput sequencing data - Demonstrated record of research productivity, especially through a strong publication record - Excellent communication skills - Strong organizational skills - Interest in conservation biology, population genetics, and/or mammalian genomics

To apply, send an email to Dr. Emily Latch (latch@uwm.edu) describing your previous experience and fit to the position. Attach a CV with contact details for 3 references. Review of applications will begin in July 2022 and considered on a rolling basis until the position is filled. The position is available immediately, with a flexible start date no later than January 2023. Questions can be directed to Dr. Emily Latch.

Emily K. Latch Professor Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

Email: latch@uwm.edu Tel: 414-229-4245 Web: <http://www.uwm.edu/~latch> Emily K Latch <latch@uwm.edu>

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Yale Salamander Ecology and Evolution

Postdoc: Yale Salamander Ecology and Evolution

The Mui₂ 1/2 oz Lab in the Department of Ecology & Evolutionary Biology at Yale University is seeking to hire a postdoctoral researcher. The postdoc will be hired under the auspices of a NSF grant to study the ecophysiology, spatial ecology, and evolution of lungless salamanders. This is a collaborative project with Dr. Eric Riddell (Iowa State University). We are open to different types of backgrounds and interests including, but not limited to: amphibian ecology and evolution, ecophysiology, spatial ecology and biophysical modeling, and comparative phylogenetics. The position is for 2-3 years, with annual reappointment.

Yale University has a thriving intellectual community of scholars in ecology and evolution in the EEB Department < <http://www.eeb.yale.edu/> >, the Yale Institute for Biospheric Studies < <http://www.yale.edu/yibs> >, the Peabody Museum < <http://peabody.yale.edu/-researchers> >, and the Yale School of the Environment

< <https://environment.yale.edu/> >.

Diversity, equity, and inclusion are core values in our group, and we are committed to ensuring that our workplace reflects those values. We strongly encourage applications from researchers identifying as a member of a historically marginalized group in STEM.

To apply, please submit a CV and short cover letter that lists the contact information for 2 recommenders. These documents should be submitted via the following

Google form <https://docs.google.com/forms/d/e/1FAIpQLSdmDtguUjK7KqOT5mGk8thNCpRvLHhTYyrbxZK5faLAI/viewform> .Or see <http://www.marthamunoz.com/opportunities.html> . Review of applications will begin on July 1, 2022 and continue until the position is filled. Interested potential candidates are welcome to reach out to Dr. Eric Riddell (eriddell@iastate.edu) and Dr. Martha Muñoz (martha.munoz@yale.edu).

“Riddell, Eric [EEOB]” <eriddell@iastate.edu> “Riddell, Eric [EEOB]” <eriddell@iastate.edu>

WorkshopsCourses

Brussels GenomeAssembly Sep4-10	87	Online PolyploidTreeEvol Jun13-15	93
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Brussels GenomeAssembly Sep4-10

Dear colleagues,

There is still four days left till the June 6 deadline for applying for participation in the EMBO Practical Course ‘Hands-on course in genome sequencing, assembly and downstream analyses’ organized at the Université libre de Bruxelles (ULB) from 4 to 10 September 2022.

This practical course will be taught by experts involved in the European Reference Genome Atlas (ERGA, <https://www.erga-biodiversity.eu/>) initiative and will cover all the steps in a typical genome sequencing project, from design till publication. One or two actual novel genomes will be sequenced and assembled during

the course then described in a collaborative research paper that all participants will contribute to.

Prospective participants are requested to submit a CV, a motivation letter and the abstract of a poster on one of their past, current or future research project (not necessarily dealing with genomics) that they will bring to the course. The registration fees (400 euro —for students/postdocs/academics, 1000 euro for industry) cover food and accommodation during the course, but not travel to/from Brussels. A limited number of travel grants and registration fee waivers are available.

For details of the program and application process, please refer to <https://meetings.embo.org/event/22-gen-seq-analysis> Best regards, Jean-François

– Jean-François Flot Associate Professor Interuniversity Institute of Bioinformatics in Brussels - (IB)² & Evolutionary Biology & Ecology - C.P. 160/12 Université libre de Bruxelles (ULB) Avenue F.D. Roosevelt 50 B-1050

Brussels - Belgium <http://ebe.ulb.ac.be/ebe/Flot.html>
 FLOT Jean-François <jean-francois.flot@ulb.be>

Norway Bergen Systematics Marine Invertebrates Sept 26-Oct 7

ForBio - Research School in Biosystematics and the University of Bergen Norway (UiB) jointly offer the course: Systematics and Evolution of Marine Invertebrates

Time and place: Sep. 26, 2022-Oct. 7, 2022 5:00, Biological Institute (BIO), University of Bergen

Course scope: Systematics and Evolution of Marine Invertebrates is a voyage through the tree-of-life of metazoans offering a comprehensive overview of the diversity of invertebrate phyla, morphological traits, and latest hypotheses of evolutionary relationships based on molecular phylogenetics. A suit of laboratory activities gives students a truly hands-on experience and opportunity to explore the morphology of a large ensemble of major representatives of the Animal Kingdom, through the observation of life and preserved specimens, anatomical dissections, interpretation of anatomical slides, and optical microscopy.

Course instructors

Prof. Manuel Malaquias (University Museum of Bergen, UiB, Norway; course coordinator) Ass. Prof. Nataliya Budaeva (University Museum of Bergen, UiB, Norway; course coordinator) Prof. Andreas Hejnol (University of Jena, Germany / University of Bergen, Norway) Ass. Prof. Aino Hosia (University Museum of Bergen, UiB, Norway) Dr. Luis Martell (University Museum of Bergen, UiB, Norway) Prof. Elena Temereva (Lomonosov Moscow State University, Russia) Dr. Nina Mikkelsen (University Museum of Bergen, UiB, Norway) Ass. Prof. Andreas Altenburger (The Arctic University of Norway) Prof. Henrik Glenner (University of Bergen, Norway) Dr. Kenneth Meland (University of Bergen, Norway) Ass. Prof. Nicolas Straube (University Museum of Bergen, UiB, Norway) Dr. Jon Hestetun (NORCE Norwegian Research Centre AS) Dr. Antonina Kremenetskaia (P.P. Shirshov Institute of Oceanology, RAS, Russia) Dr. Francisca Carvalho (University Museum of Bergen, UiB, Norway)

Learning outcomes

1) To describe the morphology and anatomy of the dif-

ferent phyla of invertebrate animals and how they are adapted to the living environment. 2) Acquire knowledge on taxonomy and phylogeny of marine animals, from sponges to protochordates. 3) Explain the concepts and terms that underlie phylogenetic classifications and hypotheses. 4) Acquire competences on basic anatomical dissection and drawing techniques. 5) Acquire competences to understand and discuss conflictive hypotheses on the evolution of the Metazoa tree-of-life. 6) Develop a critical attitude towards scientific literature (papers). 7) Understand the dynamics of the scholar process that underlies the “making” of Science.

Application deadline: June 17th 2022

More information and registration: <https://www.forbio.uio.no/events/courses/2022/-/Systematics%20and%20Evolution%20of%20Marine%20Invertebrates>

Please feel free to contact nataliya.budaeva@uib.no with any questions.

Nataliya Budaeva, Associate Professor Department of Natural History Section of Taxonomy and Evolution University Museum of Bergen University of Bergen PB 7800 5020 Bergen Norway

<https://www.uib.no/en/persons/Nataliya.Budaeva> Coordinator of ForBio - Research School in Biosystematics <https://www.forbio.uio.no> Nataliya Budaeva <Nataliya.Budaeva@uib.no>

Online Data Analysis With Tidyverse Jul 18-21

Dear all,

there are the last seats available for the 2nd edition of the “Data analysis with the Tidyverse” course.

Dates: online, July, 18th-21st

Course website: (<https://www.physalia-courses.org/-courses-workshops/tidyverse/>)

After completing the workshop, attendees will be able to:

- Import into R data frames from various sources (CSV files, Excel, the web).
- Clean, wrangle and reshape complex data frames.
- Create appealing data visualizations.

Program

Day 1 (2-7 pm Berlin time)

- Data loading with {readr}, {readxl}. - Very fast data loading with {vroom}. - Introduction to web scraping with {rvest}.

Day 2 (2-7 pm Berlin time)

- Using the {magrittr} pipe operator. - Data cleaning and wrangling with {dplyr}. - Data reshaping with {tidyr}.

Day 3 (2-7 pm Berlin time)

- Data visualization with {ggplot2}.

Day 4 (2-7 pm Berlin time)

- Introduction to Functional Programming with {purrr}. - String manipulation with {stringr}. - Handling date data with {lubridate}.

Full list of our Courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
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“info@physalia-courses.org” <info@physalia-courses.org>

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Online Data Visualization In Python Oct17-20

Dear all,

registration is now open for the Physalia course “DATA VISUALIZATION IN PYTHON”, which will be held online in October (17th-20th).

Course website: (<https://www.physalia-courses.org/courses-workshops/course38/>)

In this course, we’ll learn how to organize a data-visualization project, from initial data cleanup and preparation to actual visualization. We’ll cover best (and worst) practices, and we’ll see many self-contained exercises that will familiarize the student with different plot types, from the classical line and bar charts, to maps, networks, and subplots.

The course is aimed at students, researchers, and professionals interested in improving their data visualization skills. While science-oriented problems are the most common application, any field that produces data could be fertile ground for data visualization.

Full list of our Courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards,

Carlo

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Online Developing R Genomics Packages Oct24-28

Dear all,

registration is now open for the Physalia course “Developing R/Bioconductor packages for genomics”!

Dates: online, October 24th-28th

Website: <https://www.physalia-courses.org/courses-workshops/r-packages/> This course aims at making Bioconductor package development within one’s reach. It is specifically designed for biologists and newer bioinformaticians who may find themselves using R/Bioconductor packages and who wish to expand their programmatic toolkit.

Overall, this course will help the attendees gain accurate insights into the fundamental notions required for proper R/Bioconductor package development. We will cover key theory concepts about package development and the Bioconductor ecosystem, supported by a range of demonstrations and exercises, to get a complete understanding of all the steps of package development.

The material is suitable both for experimentalists who want to learn more about R/Bioconductor ecosystem as well as computational biologists who want to ex-

pand their set of coding skills. However, the course will be most beneficial to those who have already been familiarized with the R environment.

Full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards,

Carlo

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Online GenomeAssembly Nov4-18

Dear all,

registration is now open for the 3rd edition of the Physalia course “EUKARYOTIC GENOME ASSEMBLY USING PACBIO (HIFI AND CLR) AND HI-C”

Dates: Online, November 14th ?; 18th

Course website: (<https://www.physalia-courses.org/courses-workshops/pacbio/>)

This course will introduce the audience to a spectre of methods which are present in a usual assembly workflow, starting from raw data and finishing with a fully assembled genome. We will see how to manipulate raw reads, analyse their quality, how to run different assembly algorithms, how to run Hi-C scaffolding algorithms and how to analyse assembly quality.

Structured over five days, this course consists of both theoretical and practical aspects which are intertwined through each day. The presented theoretical foundation will be applied on small eukaryotic datasets.

Full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards, Carlo

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Online IntroductionToNextflow Sep12-13

Dear all,

registration is open for the “Introduction to Nextflow” course, which will be held online in September (12th-13th).

Course website: <https://www.physalia-courses.org/courses-workshops/course60/> Nextflow has fast become one of the primary technology platforms for computational workloads in life sciences.

The course is intended for users to become quickly proficient in Nextflow technology, starting from basic through to advanced concepts. The majority of the practicals will make use of command-line tools. Therefore familiarity with a *nix environment (e.g. Linux or MacOS) and the shell (e.g. Bash) are highly desirable.

Monday- Classes from 2-8 pm CET

Introduction to Nextflow Basic Scripting in Nextflow Channels Processes Operators Executors RNA-Seq pipeline

Tuesday- Classes from 2-8 pm CET Configuration Pipeline Parameters Workflows Modules Sharing Pipelines RNA-Seq pipeline 2

Full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please do not hesitate to contact us at: info@physalia-courses.org

Best regards,

Carlo

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Online IntroMultivariateAnalysis

ONLINE COURSE - Introduction To Multivariate Analysis In Ecology And Evolutionary Biology (IMAE01)

<https://www.prstatistics.com/course/online-course-introduction-to-multivariate-analysis-in-ecology-and-evolutionary-biology-ima01-this-course-will-be-delivered-live/> Please feel free to share!

ABOUT THIS COURSE

This community analytics course is designed for students who have recently started their projects or researchers who are starting using the R ecosystem. During this three-day course, we will cover the basic concepts of multivariate analysis and their implementation in R. This course is a complement to the PR Statistic offering allowing also beginners and non-programmers to discover the statistical tools needed to analyze an ecological dataset in research, natural resource management or conservation context. This course is not geared toward any particular taxonomic group or ecological system.

We will cover diversity indices, distance measures and multivariate distance-based methods, clustering, classification, and ordination techniques. We will focus on the concept of the methods and their implementation on R using different R packages. We will use real-world examples to implement analyses, such as describing patterns along gradients of environmental or anthropogenic disturbances, quantifying the effects of continuous and discrete predictors, data mining. The course will consist of lectures, work on R code scripts, and exercises for participants.

Please feel free to contact liverhooker@prstatistics.com with any questions.

<https://www.prstatistics.com/live-courses/> Wednesday, June 15th, 2022

ONLINE COURSE - Model Selection and Model Simplification Using R And Rstudio (IMMR06) This course will be delivered live

<https://www.prstatistics.com/course/model-selection-and-model-simplification-msms03/> Monday, June 20th 2022

ONLINE COURSE - Bayesian GLM's For Ecologists (BGFE01) This course will be delivered live

<https://www.prstatistics.com/course/bayesian-glms->

[or-ecologists-bgfe01/](#) Wednesday, June 29th, 2022

ONLINE COURSE - Introduction to Machine Learning and Deep Learning using R (IMDL03) This course will be delivered live

<https://www.prstatistics.com/course/introduction-to-machine-learning-and-deep-learning-using-r-imdl03/> Monday July 11th 2022

ONLINE COURSE - Introduction to spatial analysis of ecological data using R (ISPE05) This course will be delivered live

<https://www.prstatistics.com/course/introduction-to-spatial-analysis-of-ecological-data-using-r-ispe05/> Monday, May 9th, 2022

ONLINE COURSE - Introduction To Multivariate Analysis In Ecology And Evolutionary Biology (IMAE01) This course will be delivered live

<https://www.prstatistics.com/course/online-course-introduction-to-multivariate-analysis-in-ecology-and-evolutionary-biology-ima01-this-course-will-be-delivered-live/> Monday, September 12th, 2022

ONLINE COURSE - Multivariate Analysis Of Ecological Communities Using R With The VEGAN package (VGNR04) This course will be delivered live

<https://www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-using-r-with-the-vegan-package-vgnr04/> Tuesday, September 20th, 2022

ONLINE COURSE - Bioacoustics For Ecologists: Hardware, Survey design And Data analysis (BIAC03) This course will be delivered live

<https://www.prstatistics.com/course/bioacoustics-for-ecologists-hardware-survey-design-and-data-analysis-biac03/> Monday, September 26th, 2022

ONLINE COURSE - Species Distribution Modelling With Bayesian Statistics Using R (SDMB04) This course will be delivered live

<https://www.prstatistics.com/course/online-course-species-distribution-modelling-with-bayesian-statistics-in-r-sdmb04/>

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Online Modeling Jul8-9

Free Virtual Modeling Event July 8-9!

Have you ever been curious whether mathematical and statistical models might be useful in your research, but weren't sure how to begin? We invite graduate students, post-docs, and faculty to join NIMBioS for "A Tasting Menu of Models". Our program will include short presentations about what types of mathematical and statistical models there are and what they can do for you; question and answer sessions about how modeling might fit into your grant proposals, research, and teaching; and collaborative break-out sessions to talk about areas of research where modeling may help you tackle some new big challenges.

If you or someone you know could benefit from learning more about what quantitative models can do and how they may help your research, join NIMBioS for "A Tasting Menu of Quantitative Modeling for Researchers in the Life and Earth Sciences."

This FREE 2-day virtual workshop will take place July 8 and 9. To learn more or register: <http://www.nimbios.org/BWFTastingMath> "Mecke, Kristen Lee" <kmecke@utk.edu>

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Online Polygenic Adaptation Jun13

KITP Program: Towards an Integrative View of Adaptation: Bridging Population and Quantitative Genetics a 5 week seminar series on polygenic adaptation starting June, 13.

The schedule will be advertised on a weekly basis:

<https://online.kitp.ucsb.edu/online/adapt22/> Participation via Zoom is possible after registration at:

https://ucsb.zoom.us/meeting/register/tZAqcOGsqjktHtFnBtM_IPFnccDbC0DeHwDm

Recordings of the talks will be made available at:

<https://online.kitp.ucsb.edu/online/adapt22/> Feel free to contribute!

Christian Schli \ddot{u} ttterer Institut f \ddot{u} r Populationsgenetik Vetmeduni Vienna Veterin \ddot{u} rplatz 1 1210 Wien Austria/Europe

Zoom: *<https://bokuvienna.zoom.us/j/99886139039?pwd=dnZXUHZlK2dkWVBxU1NXQ2NCRXhwUT09>

phone: +43-1-25077-4300 fax: +43-1-25077-4390 *<http://www.vetmeduni.ac.at/en/population-genetics/>

Vienna Graduate School of Population Genetics *<http://www.poggen-vienna.at>* Christian Schli \ddot{u} ttterer <schlotc@gmail.com>

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Online Polygenic Adaptation Week2

KITP Program: Towards an Integrative View of Adaptation: Bridging Population and Quantitative Genetics a 5 week seminar series on polygenic adaptation

speakers in the second week: Alison Etheridge Oscar Gaggiotti Tony Long Michael Lynch Kathie Peichel Dagny Runarsdottir Christian Schli \ddot{u} ttterer Henrique Teotonio Sam Yeaman

The schedule is available at: <https://online.kitp.ucsb.edu/online/adapt22/> Participation via Zoom is possible after registration at: https://ucsb.zoom.us/meeting/register/tZAqcOGsqjktHtFnBtM_IPFnccDbC0DeHwDm

Recordings of the talks will be made available at: *<https://online.kitp.ucsb.edu/online/adapt22/>* Christian Schli \ddot{u} ttterer Institut f \ddot{u} r Populationsgenetik Vetmeduni Vienna Veterin \ddot{u} rplatz 1 1210 Wien Austria/Europe

Zoom: *<https://bokuvienna.zoom.us/j/99886139039?pwd=dnZXUHZlK2dkWVBxU1NXQ2NCRXhwUT09>

phone: +43-1-25077-4300 fax: +43-1-25077-4390 *<http://www.vetmeduni.ac.at/en/population-genetics/>

Vienna Graduate School of Population Genetics *<http://www.poggen-vienna.at>* Christian Schli \ddot{u} ttterer <christian.schloetterer@vetmeduni.ac.at>

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Online PolyploidTreeEvol Jun13-15

Dear colleagues,

The Nordic Network for Polyploid Trees (POLYTREE) is organizing a workshop on polyploidy trees from 13-15 of June. The workshop covers aspects of the role of polyploidy in evolution, the physiology of polyploids and prospects for use of polyploids in breeding and adapting to climate change. Physical and online participation is possible - read more and register at <https://ign.ku.dk/english/calender/2022/workshop-nordic-network-for-polyploid-trees/>. Invited speakers: Yves Van De Peer, Ghent University Martin Lascoux, University of Uppsala Martina Stromvik, McGill University Barry Lomax, University of Nottingham

Please feel free to contact Anders Ri₂ (are@ign.ku.dk) for further information.

Anders Ri₂ (network coordinator) Department of Geosciences and Natural Resources University of Copenhagen Rolighedsvej 23 DK-1958 Frederiksberg Denmark Anders Ri₂ <are@ign.ku.dk>

Online RNAseq Jun27-30

RNAseq Analysis I: Primary Data Analysis Workshop

Hosted by: Data Analytics Core Contact Information: DataAnalyticsCore@groups.dartmouth.edu Location: Zoom link to be provided

This workshop series provides an introduction to bulk RNA-seq data analysis, with a particular emphasis on differential expression analysis.

In the first workshop in this series, participants will:

Develop a working understanding of the analytical workflow for a modern RNA-seq experiment

Build a working knowledge of sample preparation considerations for RNA-seq experiments Learn how to process raw NGS data in FASTQ format to generate a gene expression matrix Learn how to perform a detailed quality control analysis of RNA-seq data

Monday, June 27, 2022 Tuesday, June 28, 2022 Thursday, June 30, 2022

The majority of analyses in this workshop will be conducted using the UNIX shell. Although we will include an introduction to the UNIX shell and how it can be used for bioinformatic data analysis, participants are strongly advised to have prior experience with using the UNIX shell before attending the workshop.

<https://sites.dartmouth.edu/cqb/current-workshops/> Shannon Margaret Soucy <Shannon.Margaret.Soucy@dartmouth.edu>

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

Online SeascapeGenomicsInR Nov31-Oct4

Dear all,

registrations are now open for the 3rd edition of the Physalia course on "Seascape Genomics", which will take place ONLINE from October 31st to November 4th.

Instructors: Dr. Laura Benestan (CEFE-CNRS, FR) and Oliver Selmoni (EPFL, CH).

Course website: (<https://www.physalia-courses.org/-courses-workshops/course70/>)

In this course, students will learn the basics of this approach and train using state-of-the-art methods. Firstly, students will learn how to extract environmental data from publicly available databases and how to use it to characterize the seascape structure and conditions. For instance, students will learn how to use remote sensing data to describe seawater temperature oscillations or seawater movements. Next, the course will focus on genomic analyses: students will learn how to evaluate genetic structures in the marine environment and calculate and display connectivity between populations. The combination of environmental and genomic data will also lead to the study of local adaptation. Students will learn different methods to discover genetic/genomic signatures potentially involved in adaptation against specific environmental constraints. The course will also cover the critical task of the interpretation and validation of the results, particularly in an applied conservation and management context. Finally, the workshop will consider the crucial aspects and good habits to ac-

count for designing a seascape genomics experiment (e.g. sampling design) from a relevant scientific question.

Should you have any questions, please feel free to contact us at: info@physalia-courses.org

All the best,

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 TransposableElementDetection Oct3-7

Dear colleagues,

Registration is open for the course Introduction to Transposable element detection using sequencing data - 2nd edition. This course will be held live online (synchronous). Max 20 participants.

Dates: October 3rd-7th, 2022

Instructor: Dr. Anna-Sophie Fiston-Lavier (Institut des Sciences de l'Evolution de Montpellier, France) & Dr. Emmanuelle Lerat (Université $\frac{1}{2}$ Lyon 1, France)

COURSE OVERVIEW

Transposable elements (TEs) can be major components of eukaryotic genomes. Such repeated sequences, which can make up very large proportions like about 50% of mammalian genomes to more than 80% in the genomes of some plants, can promote various types of mutations, from gene interruption and expression alteration to large-scale chromosomal rearrangements. They can also promote the formation of new genes. Despite their deleterious effects, TEs are currently considered as major actors in genome evolution due the genetic and epigenetic diversity they can generate.

Even if they have a fundamental biological role, detection and analysis of TE sequences are still technologically challenging. The length and quality of sequenced reads make their detection and annotation difficult (40% detection error). Moreover, the presence of TEs in a genome can also lead to important assembly errors due to rearrangement and the merge of repeats, and to diffi-

culties in the identification of splicing events and in the estimation of gene expression in transcriptomic analyses. It is thus important to be able to identify these sequences in genomic and transcriptomic data.

Since several years, a large number of bioinformatic tools have been developed allowing a better identification of TEs in genomes. New tools are released regularly to follow the progress of sequencing technologies but also to answer particular biological questions allowing to go from the TE annotation in assembled or unassembled genomes, to insertion polymorphism detection in natural populations. The result is a particularly large choice for users leading to difficulties in the determination of the best tool(s) to use according to the case.

In this course, we aim at proposing an introduction of selected bioinformatic tools for the detection and analysis of TEs in genomic data (RepeatMasker, DnaPipeTE, T-lex).

See the full program here: <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/#program> REQUIREMENTS

Participants must have a personal computer (Windows, Mac, Linux) and access to a good internet connection. The use of a webcam and headphones is strongly recommended. Participants should be familiar with Bash and the use of command lines.

All participants must install on their own personal laptop the following softwares: Putty (Windows only) and Filezilla.

You can find more information <https://www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/> or writing to courses@transmittingscience.com

With best regards

Sole

– Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter [@SoleDeEsteban](https://twitter.com/SoleDeEsteban) Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the

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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>

Online VariantDetection Jul25-28

The University of Connecticut's Computational Biology Core is offering a workshop on short variant detection and genotyping focused on whole genome sequencing data. We will introduce both short read and long read approaches for detecting short variants (i.e. SNPs and small indels). The workshop will take place over 4 days for three hours each day (3.5hrs on the first day).

Dates: July 25 - 28 (4 days) Time (ET): Day 1: 8:30am-12:00pm, Days 2-4 9.00am - 12.00pm Location: Online Cost: \$350/\$483USD for UConn affiliated/External attendees.

Workshop schedule

Day 1: Introduction to Linux, High performance computing

Day 2-4 : Introduction, reference genome preparation, download and QC of sequence data, sequence alignment, QC and post-processing, short variant detection using four pipelines with both short and long reads, filtering and comparing variant sets, functional annotation, visualization.

Registration

To register, please follow this link: <https://forms.gle/-daCLSmFtDhJQ7ndQA> Other upcoming virtual workshops: Differential expression analysis with RNA-seq, reference genome based - August 22-25 Genome assembly - September 26-29 Genome Annotation - October

24-27

Workshop FAQ

Who should attend?

Anyone interested in learning how to call (short) variants against a reference using short and/or long read sequencing data. Prior course participants have included faculty, post docs, grad students, advanced undergraduates, staff, and industry researchers.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is \$350/\$483 for UConn affiliates/External participants. It is payable at the time of registration with credit card or KFS (for UConn affiliates).

Where is the workshop?

It will be held on Zoom, and will run from 9:00am (8:30am on day 1) to 12:00pm EDT on the date indicated.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Do you offer scholarships or tuition waivers?

Yes. For each workshop we offer waivers to up to two attendees without other funding sources. Preference will be given to students from primarily undergraduate institutions, from countries classified by the World Bank as low or middle-income, and those from underrepresented groups. Applicants for waivers may submit a one paragraph justification to cbcsupport@uconn.edu.

Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

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

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

Paris GWAS heritability prediction Sep6

Hi all,

myself and David Balding will resume our one-day workshop on GWAS, heritability analysis and prediction (the first time back since Covid :)). This time, we will hold the course in Paris on Tuesday 6th September, just before the IGES conference.

See below for more details, and visit the Eventbrite page to register <https://www.eventbrite.com/e/methods-and-software-for-analysing-complex-trait-gwas-data-tickets-356845583747> If you have any questions, email doug@qgg.au.dk

Thanks, Doug

####

Methods and Software for Analysing Complex Trait
GWAS Data

Course Leaders

David Balding, Melbourne Integrative Genomics, University of Melbourne , Australia, and UCL Genetics Institute, London.

Doug Speed, Center for Quantitative Genetics and Genomics, Aarhus University, Denmark.

Cost

GBP 90, which is currently about EUR 105. This includes lunch, refreshments and Eventbrite fees.

Course outline

This workshop will cover genome-wide association analysis, including latest developments in heritability analyses, both using individual-level genetic data (e.g. GCTA and LDAK software) and using summary statistics (LDSC, SumHer). The workshop will also cover assessing heritability enrichment in functionally-annotated regions, genetic correlation and risk prediction (polygenic risk scores, BLUP and MultiBLUP). The common elements of these methods will be emphasised, high-

lighting a modelling framework that has emerged for genome-wide SNP analysis, while also contrasting the differences in modelling assumptions underlying the different software.

The practicals will provide step-by-step details for analysing genetic data, starting either with individual-level data (e.g. PLINK files or the output from IMPUTE2) or summary statistics (p-values from a GWAS). There will be worked examples; to take part in the practicals, participants should bring a laptop computer with a recent version of R installed. LDAK and other scientific software require the Linux Operating System, which is available under MAC OS using Terminal.app, and under Windows 10 or later using Windows Subsystem for Linux (WSL), see <https://docs.microsoft.com/en-us/windows/wsl/install> Prerequisites

Participants should be proficient in statistics including maximum-likelihood estimation and hypothesis testing, preferably some familiarity with random-effects regression models and experience of computer-based data analysis. In genetics, knowledge of SNP genotyping and Hardy-Weinberg and linkage equilibria will be assumed. Computer scripts and output will be discussed that assume some familiarity with scientific computing using Linux. Some familiarity with PLINK would be helpful but is not essential.

Provisional Timetable

9:30 - 10:00 Coffee, snack and registration.

10:00 - 12:30: Lecture 1 followed by Practical 1

Introduction to analysing GWAS data analysis using individual genotype data, kinship and heritability, both classical and SNP-based. Effect of LD, MAF and genotyping quality on heritability. GCTA and LDAK software. Methods based on summary statistics, enrichment of functional categories. LDSC, SumHer software.

12:30 - 13:30: Lunch (a light lunch will be provided)

13.30 - 16:00: Lecture 2 followed by Practical 2

The effects of confounding in association analysis. Genetic correlations. Genomic prediction using enhanced polygenic risk scores.

16:00 - 16:30 Optional wrap up session. The course leaders will be available for informal Q&A.

Doug Speed <doug@qgg.au.dk>

Piran Slovenia Dolphin Research Jul-Sep

Dear colleagues,

Morigenos - Slovenian Marine Mammal Society's organising Dolphin Research Courses in Piran, Slovenia, between July and September 2022, where interested individuals can participate in field research and help study dolphins in their natural environment. Morigenos is a non-profit NGO that aims to combine scientific research, education, public awareness and capacity building, to achieve effective conservation of marine mammals and the marine environment. Since 2002, Morigenos has been conducting long-term research on the ecology, behaviour and conservation of a resident population of common bottlenose dolphin (*Tursiops truncatus*) inhabiting the wider area of the Gulf of Trieste in the northern Adriatic Sea. The resulting scientific publications arising from this work can be found here: <https://www.morigenos.org/en/scientific-publications/> The courses, organised annually since 2003, are open to both students and non-students, regardless of previous experience. During the 10-day course, participants will gain theoretical and practical experience in marine mammal research methodology, including boat- and land-based surveying, focal follows, behavioural observations, photo-identification, abundance estimation and studies of social structure. Training is provided both in the field and in the form of lectures. Accommodation is provided at Morigenos research base in a beautiful medieval town of Piran (Slovenia, EU), on the Adriatic Sea coast. Daily household duties are shared among participants and researchers. The course fee, which helps cover the fieldwork expenses and allows this research programme to continue, is euro 549 for students and euro 793 for non-students. The fee includes accommodation, food, fieldwork and training. There is no selection. Applications are treated on a "first-come, first served" basis.

WHERE: Piran, Slovenia WHEN: July-September 2022
DURATION: 10 days PRICE: students 549 EUR, non-students 793 EUR (includes accommodation, food, fieldwork and training)

More information, inquiries and registration at: <https://www.morigenos.org/en/dolphin-research-courses/> +386 31 77 10 77

Best wishes, Nik Lupše

Morigenos - Slovenian Marine Mammal Society
Kidricevo nabrezje 4 6330 Piran Slovenia
www.morigenos.org www.facebook.org/morigenos
twitter.com/Morigenos_org

Nik Lupše <nik.lupse@yahoo.com>

StockholmU Evolution Behaviour Aug3

Dear all,

We're organising a workshop in association with the ISBE-meeting in Stockholm:

What is the influence of personal experiences on understandings of sex differences in behavioural ecology research?

3 August 10-12:30 at Stockholm University.

As researchers, we all bring biases to our research ' by our theoretical frameworks, our human senses (which enable certain insights into animal behavior but hinder others), our study species, our geographic locations and experiences. Accordingly, science historians and philosophers have found connections between those who have conducted science and the knowledge produced and not produced. In this workshop, behavioural ecologist Pietro Pollo will present his and Michael Kasumovic's recent paper (2022) about the effect of the researchers' experiences on their understanding of "sex roles". In addition, evolutionary biologist and gender researcher Malin Ah-King will present her research on how different researchers' perspectives have contributed to shifting perceptions about females in sexual selection research.

What can we learn from science philosophers about these differences in understandings and the development in the field? Given these diverging interpretations of sex differences and "sex roles", how should empirical researchers in animal behaviour go about to increase awareness and ameliorate handling of biases in this research area?

In preparation for the workshop we will read two philosophy of science papers.

This interdisciplinary workshop invites behavioral ecology researchers and other researchers interested in this topic. The workshop will take place at Stockholm University (location will be announced later), for those

who cannot be on site the talks will be available on Zoom. Registration: please send an e-mail to Malin.Ah-King@gender.su.se by June 30. Additional later registrations will also be possible.

Schedule: 10:00-10:10 Introduction Malin Ah-King & Ingrid Ahnesjo

10:10-10:50 Pietro Pollo, School of Biological, Earth and Environmental Sciences, University of New South Wales “What affects perceptions of sex differences in animal behaviour?”

10:50-11:15 Malin Ah-King “The Female Turn ’ reflections on knowledge production in sexual selection research”

Pause 11:30-12:30 Discussion

Organisers: Malin Ah-King, Department of Ethnology, History of Religion and Gender Studies, Stockholm University Ingrid Ahnesjo, Department of Ecology and Genetics, Uppsala University

Malin Ah-King <malin.ah-king@gender.su.se>

UTartu SummerSchoolEvolutionGenomicsMedicine Sep5-9

The Tartu Summer school on Evolution, Genomics and Medicine 2022

This is the first school of a series of annual international summer schools that brings together evolution, genetics and medicine. The school is organised by the cGEM group at the Institute of Genomics, University of Tartu, Estonia (cgem.ut.ee).

Programme: The summer school is focussed on methods and resources for identifying the present-day consequences of past natural selection for phenotypic variation and susceptibility to disease, and will cover advanced methods for inferring evolutionary histories from genomics data and linking them to large-scale genomic and functional datasets. Lectures introducing theoretical concepts and methods will be combined with workshops designed to give hands-on experience.

Anders Eriksson: Evolutionary theory of complex traits Karoline Kuchenbaeker (U. College London, UK): Trans-ethnic GWAS of complex traits Vasili Pankratov: Tree-based based methods of evolutionary inference Danat Yermakovich: Introgression from archaic humans

Mayukh Mondal: Deep learning methods for evolutionary inference Tonis Org: Epigenetics and cell-based functional assays

The school will be held in person September 5 - 9 and will be free of charge. For further information see cgem.ut.ee/summerschool2022.

Application: The course is aimed at PhD students of mathematics and bioinformatics with an interest in evolution. We also welcome students from biological and medical backgrounds with sufficient background in computational analysis, advanced undergraduates, and post-docs.

Applications are to be sent by email to kaisa.kuus@ut.ee. The application should contain: * Full contact data (name, affiliation, postal address, email address) * A brief CV containing prior studies and/or positions * A one-paragraph description of scientific interest and motivation * List of publications (if any) Please send all relevant information in one pdf file (not in the email text).

The deadline for applications is July 25 and we shall notify all applicants by August 1.

Please do not hesitate to contact the organisers for any questions (Dr Anders Eriksson, anders.eriksson@ut.ee or Kaisa Kuus, kaisa.kuus@ut.ee).

Anders Eriksson <aeriksson75@gmail.com>

WashingtonDC UrbanEvo-EcoOmics Nov4-5

We are pleased to announce the Society for Molecular Biology and Evolution (SMBE) Satellite Workshop on Urban Evolutionary and Ecological 'Omics in Washington, D.C., November 4-5, 2022.

This workshop will bring together individuals from the rapidly growing field of urban evolutionary ecology with molecular and genome evolutionary biologists to share perspectives on challenges and solutions at the intersection of these disciplines. As these fields grow, their integration provides opportunities for shaping funding initiatives and publications focused on how molecular evolutionary “omics” (e.g., genomics, transcriptomics, epigenomics) can shed light on the impact that our growing urbanized world has on biodiversity and human health.

This two day in-person workshop will bring together ~40

individuals with brief introductory presentations and rotating smaller break-out groups. The immediate goal is to provide opportunities for open discussion across diverse evolutionary sub-fields in outlining proposals for multiple activities post-workshop, such as invited symposia at international meetings and multi-authored collaborative manuscripts in relevant journals.

Applications: Please fill out this Google survey by July 1, 2022 (11 PM EST): <https://forms.gle/-UR7xXktJZm63odSZA> In addition to general information, the survey asks for a “statement of demonstrated interest” relative to the goals of the workshop (no more than 250 words). Specifically, address how you could personally contribute to discussions on how molecular evolutionary “omics” research can shed light on the impact that our growing urbanized world has on biodiversity and human health.

Criteria: We will evaluate applications based on background in urban evolutionary ecology or molecular evolutionary genetics/genomics, with a preference for a demonstrated interest in both. The workshop will consist of break-out and working groups, and preference will be given to those who are able to join in person. We will also look to maximize diversity across demography, discipline, and career stage.

Venue & Lodging: The Washington, D.C. area has easy access via flights into three airports (Dulles, Reagan, & Baltimore/Washington). The two day workshop will take place at a hotel with conference space and lodging. Ample food/beverage opportunities and a DC Metro stop (which connects to the downtown National Mall and airports) are in very close walking distance.

Funding: There is no registration fee. The organizing committee plans to accommodate three nights of lodging per person for those in need. In addition, we anticipate providing funds to defray travel costs. The survey above asks if you would require these funds to attend. We ask that you please consider your need so that we can maximize involvement.

For more information please visit our workshop website at: <https://urbanevolution-litc.com/smbe-workshop/> For questions, please contact: Brian Verrelli (bverrelli@vcu.edu)

Brian C. Verrelli, Ph.D. Center for Biological Data Science < <https://cbds.vcu.edu/> > Virginia Commonwealth University bverrelli@vcu.edu pronouns: He/Him/His

Brian Verrelli <bverrelli@vcu.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 \LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.