E v o l D i r

August 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

Ankara EcologyEvolution Sep7-9

We would like to announce the Ecology and Evolutionary Biology Symposium in Turkey (EEBST), which will take place this year on 07-09 September 2022 at the Middle East Technical University, Ankara.

EEBST'22 will be the eighth in a series of international symposia organized annually by the Ecology and Evolutionary Biology Society of Turkey.

This year's keynote speakers will be Pedro Cardoso (Finnish Museum of Natural History University of Helsinki, Finland), Hanna Kokko (Department of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland) and Ben Krause-Kyora (Institute of Clinical Molecular Biology University of Kiel, Germany).

We are pleased to invite oral and poster presentations in all areas of Ecology and Evolutionary Biology. Registration and abstract submissions are now open and the deadline for abstract submission is July 8th, 2022.

For further information please visit https://-eebst.ekoevo.org/ . We look forward to seeing you in Ankara.

EEBST'22 Organizing Committee eebst@ekoevo.org

Mehmet Somel <somel.mehmet@googlemail.com>

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Buffalo GLAM-Evogen Aug-13

Dear Colleagues,

I hope you are having a wonderful start to your summer.

We wanted to remind you that the abstract submission deadline for the Great Lakes Annual Meeting of Evolutionary Genetics is now extended to July 13th. We have also updated our COVID policy for this meeting. You can reach more information on our website - https:/-/gokcumenlab.org/glam-evogen/ Please remind your trainees as we are all excited to see all of you and hear the exciting science that has happened in the last couple of years. Don't forget to register even if you are not presenting, because we would like to have enough pizza and coffee for everybody. :)

The registration and abstract submission (deadline July 13, 2022) is here: https://forms.gle/-nv5jX77u2zpRLJwC8 Do not forget to circulate among interested parties and on social media. For questions, please contact gokcumen@gmail.com

Hope to see all of you soon.

Omer and the organizing committee

gokcumen@gmail.com

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Cambridge CichlidEvolution Sep6-9 DeadlineJul16

Dear colleagues,

It is our pleasure to announce that the registration and abstract submission for Cichlid Science 2022 is now open. The meeting will take place from the 6th to 9th September in Cambridge (but also online). *The deadline for abstract submission is July 16th*. https://-/cichlidscience2022.com/ We will also host a cichlid genome editing workshop, which will take place on the afternoon of the 6th. For more info see: https://-cichlidscience2022.com/genome-editing-workshop . *We have six 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), Andrea Simkova (Masaryk University, CZ) and James-Herbert Read (University of Cambridge, UK). For more info see: https://-cichlidscience2022.com/keynote-speakers Please spread the word and share this email with whoever may be interested in attending.

Looking forward.

The organising committee. Richard Durbin, Emï¿½lia Santos, Audrey Putman, Bethan Clark, Miguel Almeida and Moritz Blumer

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

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Cambridge CichlidScience AbstractSubmissionDeadline Jul16

Dear colleagues,

This is a reminder that the extended deadline for abstract submission for Cichlid Science 2022 is this Friday 22nd July.

We have an exciting line-up of speakers: Joana Meier (University of Cambridge, UK), Mary Kishe (TAFIRI, Tanzania), Martin Genner (University of Bristol, UK), Joost Woltering (University of Konstanz, Germany), James-Herbert Read (University of Cambridge, UK), and Andrea Simkova (Masaryk Uni Czech Republic). We will also host an add-on workshop on cichlid genome editing. More information is available on the website: https://cichlidscience2022.com Please share with your networks and we look forward to receiving your abstracts!

Best wishes, Bethan

On behalf of the organising committee. Richard Durbin, Emï¿½lia Santos, Audrey Putman, Bethan Clark, Miguel Almeida and Moritz Blumer

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

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Cologne ReferenceGenomes4Biodiversity Sep5-9

Dear all,

the German section of the European Reference Genome Atlas (DeRGA) is hosting the

International Symposium on Reference genomes for Biodiversity from 5th-8th September 2022 at Cologne, Germany

The meeting is primarily directed towards researchers based in Germany/Europe and interested in contributing to ERGA (https://www.erga-biodiversity.eu). Reference genome projects from a wide range of organismic groups, as well as common and specific challenges, recent advances and future plans will be discussed. Contributions from researchers working on plants or algae are especially welcome - please spread the word among your colleagues!

Please register by July 28th: http://derga-biodiversity.de/symposium The registration fee is 150 euro (50 euro for students) and free childcare is available during the conference.

Looking forward to meeting you in Cologne,

Katja Reichel, for the Organising Committee (Ann-Marie Waldvogel, Astrid Böhne, Philipp Schiffer)

Katja Reichel <katja_reichel@yahoo.de>

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Dublin ProteinStructuralDisorder Aug29-Sep3

Dear Colleagues,

The IDPfun consortium is happy to invite you to its fourth All Hands Meeting "Machine Learning and Protein Structural Disorder", to be held in Dublin (Ireland) from August 29 to September 2, 2022.

The meeting will bring together the members of the MSCA RISE project IDPfun - Driving the functional Characterization of Intrinsically Disordered Proteins, the ELIXIR IDP community, and the participants of CAID 2 (Critical Assessment of protein Intrinsic Disorder).

This meeting aims at the description of the relationships between IDPs by combining experimental data and machine learning approaches, as a necessary and timely step to understand their evolution, function and structural ensembles properties, as well as raise the awareness about IDPs in the scientific community, which have been based on globular proteins for many years. It requires the joint effort of scientific teams with different expertise (structural biologists, data scientists, computer scientists and bioinformaticians).

For further details on the program and registration, go to https://idpcentral.org/idpfun22 . All the best,

Lars Jermiin | PhD, MSc | Honorary Professor (ANU) & Professor (UCD)

Research School of Biology, Australian National University, Acton, ACT 2601, Australia Email: lars.jermiin@anu.edu.au | Mobile: +61 (0) 405-584-673

School of Medicine, University College Dublin, Belfield, Dublin 4, Ireland Email: lars.jermiin@ucd.ie | Mobile: +353 (0) 877-099-286

Associate Editor (Systematic Biology)

Lars Jermiin <lars.jermiin@anu.edu.au>

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Edinburgh ComplexTraitGenetics BillHill Sep6

We are restarting this series of events (post pandemic) with a meeting to mark the contributions of Bill Hill (1940-2021). The meeting is sponsored by the Genetics Society and the Fisher Memorial Trust and the programme is shown below. There are some places left for in-person attendance and there is also an online option. If interested, please register at https://tinyurl.com/-3zmct5hp Josephine Pemberton

Prof. J.M. Pemberton Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh Charlotte Auerbach Road EH9 3FL

tel 0131 650 5505

**

Edinburgh Alliance for Complex Trait Genetics 16th Meeting - Tuesday 6th September 2022 Royal Society of Edinburgh 22-26 George St., Edinburgh, EH2 2PQ

Sponsored by the Genetics Society and the Fisher Memorial Trust

10.00 Arrival and registration Tea and coffee

10.30 Brian Charlesworth (Institute of Ecology and Evolution, Edinburgh) Bill Hill, linkage disequilibrium, and selective interference

11.00 Adam Eyre-Walker (University of Sussex) The effects of Hill-Robertson interference on adaptive and non-adaptive evolution

11.30 Sara Brown (Centre for Genomic and Experimental Medicine, Edinburgh) Eczema genetics

12.00 Kenneth Baillie (Roslin Institute, Edinburgh) Genetic susceptibility to severe Covid

12.30 Lunch

13.30 Peter Visscher (University of Queensland) Reconciling linkage and associations studies of complex traits using family data

14.00 Naomi Wray (University of Queensland) LD induced masking of genetic effects

14.30 Pippa Thomson (Centre for Genomic and Experimental Medicine, Edinburgh) Analysis of cognition and mental health using exome and whole genome sequencing data

15.00 Tea and coffee

15.30 Loeske Kruuk (Institute of Ecology and Evolution, Edinburgh) Genetic variance for fitness in the wild

16.00 Eileen Wall (SRUC Edinburgh) Livestock genetic improvement lessons from a long-term selection experiment

16.30 Daniel Tolhurst (Roslin Institute, Edinburgh) Products vs Parents: What makes plant and animal breeding methods so different?

17.00 Drinks and nibbles

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh DhÃ¹n Ãideann, clàraichte an Alba, àireamh clàraidh SC005336.

Josephine Pemberton <J.Pemberton@ed.ac.uk>

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Lucca Italy Speciation Jan29-Feb3

CONFERENCE ANNOUNCEMENT:

We are pleased to announce SPECIATION 2023: The Origin and Persistence of Species, the fourth Gordon Research Conference (GRC) dedicated exclusively to speciation research. The conference will be held at the beautiful Renaissance Tuscany Il Ciocco in Lucca, Italy during the week of January 29-February 3, 2023 and is co-chaired by Katie Peichel (University of Bern, Switzerland) and Dan Bolnick (University of Connecticut, USA).

The conference will be directly preceded by a two-day Gordon Research Seminar (GRS) on January 28-29, 2023. The GRS is co-chaired by Joana Meier (Wellcome Sanger Institute and University of Cambridge, UK) and Jenn Coughlan (Yale University, USA) and offers opportunities for early-career scientists to get involved at the forefront of modern speciation research.

Invited presentations and discussion sessions at both the GRC and GRS will cover a broad array of timely topics in speciation research. Please see the conference websites for more details: https://www.grc.org/speciation-conference/2023/ Registration for both conferences is open until December 31, 2022, but space is limited so apply now! Anyone who would like to be considered for an oral presentation at the GRS must submit their application and an abstract by August 1, 2022.

Please send questions to catherine.peichel@unibe.ch

We look forward to seeing you in Italy! Katie Peichel, Dan Bolnick, Joana Meier, and Jenn Coughlan

"catherine.peichel@unibe.ch" <catherine.peichel@unibe.ch>

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MaxPlanck Ploen ModellingMicrobiomes DeadlineExt Sep14-17

Dear colleagues,

We have extended the deadline for application to the "Mathematical modelling of microbiomes" workshop until July 12th (23:59 CEST).

This workshop will happen on 14-17th September 2022. You can register and check other details at: https://-workshops.evolbio.mpg.de/event/60/ We look forward to welcoming you to Ploen in September!

All the best! Romï¿½n Zapiï¿½n-Campos, Florence Bansept, and Michael Sieber (MPI Ploen)

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

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Online ChineseBotanicalDiversity Aug17-18

Dear all,

We would be honored to have you as an attendee at the Virtual Symposium on Chinese-Neotropical Botanical Diversity.

Dates/Times Wed Aug 17, 2022: 07:00-10:15 (Ecuador Time); 20:00-23:15 (China Time) Thursday Aug 18, 2022: 07:00-10:15 (Ecuador Time); 20:00-23:15 (China Time)

Links Program/Abstracts/Bios: http://www.cn-bd.org/ Pre-registration: https://tinyurl.com/2bxovb4d Program

Wed Aug 17, 2022: 07:00-10:15 (Ecuador Time); 20:00-23:15 (China Time) Opening (15 min) Speaker: Qing-Feng Wang, China. Talk: Diversity and Evolution of Aquatic Plants Speaker: Xavier Cornejo, Ecuador. Talk: Botanical Studies in Coastal Ecuador Speaker: Yaowu Xing, China. Talk: The Origin and Assembly of the World Richest Temperate Alpine Flora Speaker: Katya Romoleroux, Ecuador. Talk: Endemic flora of the Ecuadorian Páramos

Day Two Thursday Aug 18, 2022: 07:00-10:15 (Ecuador Time); 20:00-23:15 (China Time)

Speaker: David A. Neill, Ecuador. Talk: Botanical Studies in Amazonian Ecuador and the sub-Andean cordilleras

Speaker: Limin Lu, China. Talk: Temporal and spatial comparisons of angiosperm diversity between eastern Asia and North America

Speaker: Hugo Valdebenito, Ecuador. Talk: Flora of the Galápagos Islands

“Speaker: Hui Liu, China: Talk:

Distribution, evolution and adaptation of plant functional traits of Magnoliaceae in China” Closure (15 min)

Many thanks and please feel free to forward this information to colleagues.

Best wishes from the organizers.

Alina Freire-Fierro (Ecuador) and Xue Jun Ge (China)

Alina Freire-Fierro, Ph.D. South China Botanical Garden-CAS President’s International Fellowship Initiative, PIFI/Associate Researcher at Smithsonian Institution/Missouri Botanical Garden/Universidad Técnica de Cotopaxi Tenured Associate Professor of Botany (on unpaid leave), Universidad Regional Amazónica Ikiam alina_ff@yahoo.com, alina.freire@utc.edu.ec, alina.freire@ikiam.edu.ec

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alina.ff@gmail.com

Salzburg Austria AustrianBotanists Sep22-25

— 20th Meeting of Austrian Botanists 2022 —

REGISTER NOW!

Dear friends of the plant world!

We would like to cordially invite you to the 20th Austrian Botanists Meeting taking place from Thu 22 to Sun 25 September 2022 in Salzburg, Austria!

The 20th Meeting is jointly organized by the Haus der Natur Salzburg, the Department of Environment and Biodiversity at the Paris-Lodron-University-Salzburg, and the Province of Salzburg and will be held at the Faculty of Natural and Life Sciences at the University of Salzburg. The conference will cover fundamental botanical and applied research and also timely topics relevant for plant conservation biology. We also link universities and research institutions with the growing citizen science community and everyone enjoying plant diversity is invited to a fruitful exchange of ideas and networking.

DEADLINE for registration and abstract submission: 1st August 2022!

For registration and further information, please visit https://www.plus.ac.at/umwelt-und-biodiversitaet/-news-events-social-media/tagungen/ We look forward to welcoming you in Salzburg!

Kind regards, the organizing committee of the 20th ÃBT

Contact: andreas.tribsch@plus.ac.at, helmut.wittmann@hausdernatur.at, cvetka.piringer@plus.ac.at

Hörger Anja <anja.hoerger@plus.ac.at>

SMBE CallProposals Host2025

Dear Colleague:

Want to meet like-minded colleagues from all over the world?

Wish you could have an international conference in your field closer to home?

SMBE is accepting proposals to host its International meeting in 2025. Informal expressions of interest should be from a prospective local organizing committee of scientists headed by an SMBE member and should be emailed to us ASAP. Full proposals will need to be submitted to the Society's Executive Administrator Lulu Stader at Smbe.contact@gmail.com using the SMBE template by *30 October 2022*.

For details of meeting organization, please see the *SMBE Conference Guidelines* < https://t.e2ma.net/click/5vv9o/9ik3r1/x9cmuf > (*and specifically Appendix 2 which outlines the format of proposals*).

In addition, please include details for a hybrid conference to be held at least partially online and a backup plan in case the meeting cannot be held in person.

Once a location is chosen, the local organising committee will be responsible for the academic program and the overall conference budget. The Society and the local organizers will hire an international professional conference organizing firm who will work together with the local organizers to secure facilities, develop a website, and advertise the meeting.

SMBE rotates its meetings geographically to encourage international participation. The next two meetings will be in and Ferrera, Italy (2023) and Mexico (2024). For 2025, we are particularly requesting *proposals from *outside* Europe and North America*.

Please note that SMBE is not interested in proposals from professional conference organizers.

Looking forward to hearing from you.

Sincerely,

Kateryna Makova President-Elect, SMBE Smbe.contact@gmail.com

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

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SMBE Everywhere Online MutationalBiasesAdaptation Aug2

Dear colleagues,

This is a reminder that the SMBE Everywhere GS3 symposium "Mutational Biases and Adaptation" is on the 2nd August 2022, 12:00 - 20:00 UTC

You can find the online programme here: http://www.smbe.org/smbe/MEETINGS/SMBEeverywhere/GS3.aspx Invited talks from Deepa Agashe (National Centre for Biological Sciences/Tata Institute of Fundamental Research) and Alejandro Couce (Polytechnic University of Madrid)

Lead Organizers: James Horton (University of Bath) and David McCandlish (Cold Spring Harbor Laboratory)

Free to SMBE members - make sure to register ASAP to ensure you gain access in time.

Symposium Abstract: Different types of mutations vary in their rate of occurrence, a phenomenon known as mutation bias. Such biases are well understood to exert directional influences on patterns of neutral genetic variation. However, mounting evidence also supports a role for mutation bias in guiding the direction of adaptive evolution. Theoretical modeling has shown that adaptive evolution can enrich for mutationally-favored but selectively sub-optimal alleles, and recent empirical studies have found biases among documented adaptive substitutions consistent with these theoretical predictions. In particular, these studies have shown that mutation types favored by a handful of specific biases, such as transition-transversion bias and CpG hotspots, are also statistically overrepresented among adaptive amino acid substitutions. However, a number of key questions remain unanswered regarding how mutation and selection interact during adaptive evolution. For instance, the roles of different types of mutation bias in adaptation are not well understood. These include context-dependent biases involving flanking nucleotides, spatial heterogeneity in mutation rates across the genome, idiosyncratic mutation signatures driven by either endogenous processes or external environmental exposures, and heritable variation in mutation biases as often observed in mutator strains or even in different human populations. This symposium will showcase recent advances in understanding the complex interplay between muta-

tion and selection in shaping molecular adaptation, and will include contributions from a wide array of systems including experimental evolution, protein evolution, parallel adaptation and evolutionary prediction, evolution of drug and pesticide resistance, and cancer.

Tiffany Taylor <tt515@bath.ac.uk>

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SMBE SatelliteMeetings CallForProposals

Subject: SMBE SATELLITE, INTERDISCIPLINARY AND REGIONAL MEETINGS - CALL FOR PROPOSALS

CALL FOR PROPOSALS < https://t.e2ma.net/click/-xt830e/duvmg1/xx7hml > *SMBE SATELLITE, INTERDISCIPLINARY * *AND REGIONAL MEETINGS * *- CALL FOR PROPOSALS -* Dear SMBE Members, Each year, SMBE provides funds in aid for* SMBE SATELLITE, INTERDISCIPLINARY AND REGIONAL MEETINGS*. These meetings are organized and held independent of the SMBE annual meeting. SMBE is now calling for proposals for meetings and actions to be held between *Jan 2023 and Dec 31st 2023*. Funds will be awarded on a competitive basis to members of the molecular evolution research community to run workshops/meetings on an important, focused, and timely topic of their choice. The number of awards will depend on the quality of proposals and total cost. The deadline for submission of proposals is *September 30th 2022*. *List of upcoming and previous SATELLITE/INTERDISCIPLINARY/REGIONAL SMBE meetings:* Upcoming meetings: < https://-t.e2ma.net/click/xt830e/duvmg1/dq8hml > Please also consult our archive for further information on previous satellite, regional and interdisciplinary meetings: < https://t.e2ma.net/click/xt830e/duvmg1/ti9hml > Participants of Satellite/Interdisciplinary/Regional meetings are eligible for SMBE Caregiver Award: < https:/-/t.e2ma.net/click/xt830e/duvmg1/9aaiml > *SMBE SATELLITE MEETINGS* These are workshops or small, topically focused meetings with fewer than 100 participants that are organized and held independent of the SMBE annual meeting. In the past five years, SMBE has supported multiple satellite meetings on diverse topics, a sample of our most recent Satellite meetings include:

- "Fungal pathogens" 2022 - "Molecular Biology and Evolution of Cancer" 2019 - "Towards an integrated concept of adaptation: uniting molecular population genetics and quantitative genetics" 2019 - "Molecular evolution and the cell" 2018 - "Genome Evolution in Pathogen Transmission and Disease" 2018 - "Modern Methods for the study of ancient DNA" 2018

SMBE INTERDISCIPLINARY AND REGIONAL MEETINGS SMBE will promote interdisciplinary research and extend its actions worldwide by sponsoring (1) joint meetings with meetings of other societies; symposia or plenary lectures on molecular biology and evolution at meetings whose primary focus is not molecular evolution; (2) regional meetings outside the US/Canada, Europe, and Japan; (3) small regional meetings in the US/Canada, Europe, or Japan targeted towards PhD students and postdocs with the purpose of helping them develop their presentation skills and facilitate networking. *Most recent SMBE Regional and Interdisciplinary meetings were:*

- "Israeli Society of Evolutionary Biology inaugural meeting", Israel, December 2019. - "Evolutionary genomics at the human-environment interface", Malawi, September 2019 (regional) - "Population Genomics of Mobile DNA", USA, 2019 (interdisciplinary) - "Regional workshop on Computational Biology", Mexico, 2019 - "Satellite workshop on Genome Evolution in Pathogen Transmission and Disease", Japan, 2018

GUIDELINES FOR SATELLITE, INTERDISCIPLINARY AND REGIONAL MEETINGS

- SMBE will provide financial support for up to 80% of the costs of each *satellite meeting*, up to a maximum of $40,000 USD per meeting (most meetings are funded at $20,000-$30,000 each). In addition, SMBE will cover the cost of 2 plenary lectures, up to a maximum of $3,000 USD per lecture. A proposal containing up to 3 plenary lectures per meeting is possible but it would require the extra cost to be included in the conference budget. Including more than 3 plenary lectures per meeting would require specific justification.

- SMBE will provide financial support for up to 100% of the costs for the *regional and interdisciplinary meetings*, up to a maximum of $25,000 USD per meeting outside US/Canada, Europe and Japan and up to $10,000 USD for meetings in US/Canada, Europe, or Japan. In addition, SMBE will cover the cost of plenary lectures, up to a maximum of $3,000 USD per lecture and a maximum of 2 plenary lectures per meeting.

- A detailed projected budget, including the expected number of participants, travel/food/lodging costs, and registration fees must be submitted with the applica-

tion. Please note that SMBE funds cannot be used for indirect costs or overhead costs.

- At least one of the organizers must be a member of SMBE. Current SMBE Council members, or members who have rotated-off Council in the last calendar year, are not eligible to serve as meeting organizers or

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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

UCologne ReferenceGenomesForBiodiversity Sep5-8

International symposium on "Reference genomes for biodiversity" hosted by the Institute of Zoology at the University of Cologne, Germany, 5-8 September 2022. This symposium brings together leading scientists of all disciplines working on biodiversity genomics. We invite everyone interested in the genomics of species across the tree of life with tricky, fascinating, pan-, polyploid or giant genomes to register for the symposium. Focus sessions of the symposium include comparative genomics/phylogenomics, giant genome sizes, pangenomes and symbiotic communities, polyploid genomes, genomics in microeukaryotes and tiny invertebrates. We will discuss recent advances and challenges in the field, and how we move forward as a scientific community in Germany and Europe. Keynote lectures will be given by Dr Rosa Fernandez (IBE Barcelona, Spain), Dr Rebekah Oomen (University of Oslo and University of Agder, Norway), Prof. Mark Blaxter (DToL Project Leader, Wellcome Sanger Institute, UK) and Prof. Axel Meyer (University of Konstanz, Germany). Registration is open until August 3rd and more information can be found on the webpage of DeRGA ' Deutscher Referenzgenom Atlas.

Symposium organizing committee: Prof. Dr. Ann-Marie Waldvogel, Dr. Astrid Bohne, Dr. Philipp Schiffer

"a.waldvogel@uni-koeln.de" <a.waldvogel@uni-koeln.de>

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UWaikato Online SMBE GenomesInvasion Nov6-9 CallAbstracts

Kia Ora,

We are thrilled to be hosting the SMBE Regional Meeting on The Role of the Genome in Biological Invasions in Hamilton, New Zealand and online, 6-9 November 2022.

This first-of-its-kind meeting will bring together world-renowned experts from Australasia and beyond to synthesise theoretical, empirical, and real-world research on how genomic underpinnings enable invasive species to proliferate globally.

Our line-up includes two plenaries, four keynote speakers and selected oral and poster presentations, encompassing four major research themes: Global Spread/Threats/Pathways; Eco-evolutionary Processes; Technologies; Future Directions. We will have a specific workshop/group discussion-focused day and, with sufficient interest, a training day ('invasion genomics) to follow the meeting. Our social programme includes an icebreaker event and a conference dinner and we have travel/carer awards available.

Thanks to our generous sponsors (SMBE, Manaaki Whenua Landcare Research, University of Waikato and its Environmental Research Institute), our registration fees are extremely low!

We are now calling for registration and abstracts:

-

Abstract deadline: 30 August 2022 -

Registrations close: 1 November 2022

Please register for the conference here: https://www.ivvy.com.au/event/5TMCPM Find out more information about the conference, and submit your abstract here: https://www.invasomics.com/conferences Best wishes,

Ang McGaughran & Manpreet Dhami

Dr. Angela McGaughran FHEA *Senior Lecturer* Te Aka Mâtuatua - 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=-

list_works&hl=en&user=NiKUDjoAAAAJ >

New papers: Evolutionary responses to warming <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 >

Ang McGaughran <ang.mcgaughran@gmail.com>

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WashingtonDC ConflictsOrganismality Nov8-9

We are pleased to announce our upcoming conference, "The Paradox of the Organism (Revisited)", to be held November 8-9, 2022 at Georgetown University in Washington DC.

http://www.paradoxoftheorganism.com/ This 2-day conference will bring together biologists and philosophers to discuss internal conflicts (e.g., selfish genetic elements, selfish cell lineages) and their implications for organismality.

Confirmed speakers are: Amy Boddy - Department of Anthropology, UC Santa Barbara Pierrick Bourrat - Philosophy Department, Macquarie University Ellen Clarke - School of Philosophy, Religion, and History of Science, University of Leeds David Haig - Department of Organismic and Evolutionary Biology, Harvard University Israt Jahan - Department of Biology, Washington University in St. Louis Samir Okasha - Department of Philosophy, University of Bristol Laura Ross - Institute of Evolutionary Biology, University of Edinburgh Martijn Schenkel - Department of Biology, Georgetown University and Faculty of Science and Engineering, University of Groningen Nina Wedell - School of Biosciences, University of Melbourne and Biosciences, University of Exeter

We have some slots for contributed talks and posters. The submission deadline for their abstracts is September 1 (see conference website for submission portal). Decisions on contributed talks will be made by September 8. The registration deadline for attending the conference is October 15.

Organizers: Arvid Sgren, Evolutionary Biology Centre, Uppsala University Manus Patten, Department of Biology, Georgetown University (mmp64@georgetown.edu)

Manus Patten <mmp64@georgetown.edu>

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GradStudentPositions

AarhusU PrimateGenomics

PhD positions in primate evolutionary genomics, spermatogenesis and speciation. Application deadline August 1, 2022

Three PhD positionswith Mikkel Heide Schierup and Thomas Bataillon at Bioinformatics Research Centre, AarhusUniversity, Denmark(see links for full announcements and application template):

1. primate spermatogenesis and speciation (https://tinyurl.com/2p8dbmzx),

2. scRNA analysis of spermatogenesis and fertility (https://tinyurl.com/29ns48cp),

3. mutational processes in testes (https://tinyurl.com/2jwj2j7v)..

In any of these positions, you can chose to focus on any combination of population genetics and evolutionary modelling and large scale evolutionary analysis. Please do not hesitate contactingmheide@birc.au.dkfor further information

Mikkel Heide Schierup <mheide@birc.au.dk>

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AarhusU Three Bionformatics

We have three PhDs positions available at the Bioinformatics Research Center (BiRC) Aarhus University (Denmark) to work under the supervision of Mikkel Schierup and Thomas Bataillon.

Applications are due ** August1, 20022 **. The positions are available from November 2022 or later.

At BiRC we focus on developing computational methods for collecting, handling and analyzing genomic data. Research ranges from formulating models and theories about genome evolution, to constructing algorithms and developing computer programs to implement new analytical methods. We have has a strong emphasis on molecular and genome evolution, molecular population genetics, firmly grounded in statistical and algorithmic approaches to bioinformatics. Our research spans from addressing purely theoretical questions, to program development, and applications to large empirical datasets.

See https://birc.au.dk/ The details of the positions / who to contact / how to apply are here :

https://phd.nat.au.dk/for-applicants/open-calls/-august-2022/re-advertisement-haploid-and-sex-specific-selection-modelling-and-detection-in-deep-mutational-scanning-of-sperm-samples-and-trios https://phd.nat.au.dk/for-applicants/open-calls/august-2022/re-advertisement-single-cell-analysis-of-spermatogenesis-in-primates-drivers-of-reduced-male-fertility-and-speciation https://-phd.nat.au.dk/for-applicants/open-calls/august-2022/-xspect-understanding-primate-speciation-through-evolutionary-studies-of-spermatogenesis Thomas Bataillon <tbata@birc.au.dk>

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AuburnU PineConservation

I am looking to fill a fully funded PhD assistantship in the College of Forestry, Wildlife, and Environment at Auburn University, starting Fall/Spring of 2022/2023. Research in the lab is broadly focused on conservation and ecological genetics and typically relies on whole genome sequencing data and bioinformatic tools. Current research in the lab includes investigation of the genomic determinants of fitness, understanding the complexities of population recovery from recent crashes, and developing methods for efficiently tracking individual movement in large populations. (Please see the lab webpage for additional information about on-going work < http://wp.auburn.edu/willoughbylab/ >.)

The applicant hired to fill this position will focus on the genomics of an emerging fungal pathogen of pine, a critical timber resource in the southeastern U.S. In particular, the student hired for this work will develop a project to understand the evolutionary history and origins of this pathogen in this new host species with an emphasis on understanding the phylogeography of this species across the southeastern U.S. landscape. Current plans involve collection of ˜250 fungal samples from each of 5 southeastern U.S. states and generation of sequencing data using the MinION platform, but this could be expanded to suit student interests.

This project is part of a large, interdisciplinary and

multi-institutional collaboration that includes graduate students, postdocs, and scientists from Auburn and the Forest Service. Because of this, the ability to communicate across disciplines is a critical skill needed to complete this project. Although familiarity with bioinformatics and molecular techniques is desirable for this position, previous experience in this area is not required. Please do not self-select yourself out of applying as there are many ways to acquire skills that will set you up for a successful graduate experience. Diversity and inclusion are a high priority of this lab group; all interested applicants are encouraged to get in touch with me directly prior to applying to the graduate program. To do so, please send me an email (janna.willoughby@gmail.com) with your background and interests and a pdf of your CV. Applications will be evaluated on a rolling basis.

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

Janna Willoughby <jwilloughby@auburn.edu>

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Barcelona GeneNetworkEvolution

Graduate (PhD) position

Gene networks and the evolution of organismic complexity.

1.Basic job and project description:

The position is the Autonomous University of Barcelona (UAB), Spain

-The main project questions are:

How gene networks evolved to lead to the evolution of complex and robust phenotypes?

Can be uncover some principles on how gene networks wired over evolution to reach such complexity?

How these principles affect the tempo and mode of evolution.

Any other question of the applicants interest that are related to the previous questions.

We will use computational models of gene networks during development and computational models of evolution by natural selection to study such questions for the case of organismic complexity (e.g. anatomy). The models we develop are genotype-phenotype maps, relating genetic changes to phenotypic variation. These models are based on realistic gene network models of pattern formation and morphogenesis that lead to realistic 3D multicellular (animal) phenotypes. So actual embryonic and adult morphologies arise from our models, either of specific organs (e.g. teeth, wings, limbs) or generic embryo-like morphologies.

The position is in Salazar-Ciudad's group and it entails obtaining a PhD degree.

2. Background of the project:

There is no consensus definition of complexity, yet it is evident that organisms are complex and explaining such complexity is one of the most fundamental questions of biology. Morphological complexity has not increased in the evolution of all lineages and, in general, it is unclear whether there is a general trend of increasing complexity in evolution. Yet, one may ask about the mechanisms by which such complexity has increased in the lineages where it has increased. How complexity increases during evolution is necessarily related to development: any evolutionary change in morphology is first a change in the development that produces such morphology.

It has been argued that, in spite of the remarkable morphological complexity of organisms, their development is achieved through a limited number of cell behaviors and types of cell interactions. These cell behaviors would be cell division, cell adhesion, cell death, cell growth, cell contraction, extracellular signal and matrix secretion, extracellular signal reception and cell differentiation. In addition to cell behaviors, development involves interactions between cells, either mechanical or through extracellular signalling.

The questions we want to approach in this study are: how should these interactions and cell behaviors be coordinated to produce complex and robust morphologies in evolution? The question is, then, whether there are some logical requirements that developmental mechanisms should fulfill in order to lead to complex robust

morphologies. Are there, for example, some requirements at the level of gene network topology or at the level of cell behaviors and their coordination during development? How do these requirements arise in evolution?

If, as suggested above, pattern transformations in development involve a limited set of cell behaviors and cell interactions, then any mathematical model implementing those and intracellular gene networks should be able to reproduce, to a large extent, the range of pattern transformations possible in animal development. In this project we will use one such model, EmbryoMaker (Marin-Riera et al, 2015)â, to simulate a large number of possible developmental mechanisms and try to discover what, if anything, do the mechanisms leading to robust complex morphologies have in common.

3. Job description

The main tasks of the student include using existing models of embryonic development (e.g. EmbryoMaker) in order to simulate the development of complex morphologies. These models will be combined with models of evolution, in a population context with mutation, genetic drift and natural selection on morphology (see for example Salazar-Ciudad and Marin-Riera, 2013). The gene networks found to lead to the development of complex and robust phenotypes in evolution would be analyzed to extract general regularities, if any, these gene networks need to fulfill. The main tasks, thus, consist in simulation, theorizing, data analysis, coding, literature searching, writing and presenting results in conferences. We seek candidates highly motivated for theoretical work and data analysis with a broad understanding of the evolutionary theory and/or developmental biology and/or modeling.

4. Requirements:

- Candidates should have a University Degree and a Master's Degree in biology, or similar, within the European Higher Education System (minimum 300 ECTS) or equivalent by September 2021.

- Scientific programming skills or a willingness to acquire them is required.

- The most important requirement is a strong interest and motivation on science and evolution. A capacity for creative and critical thinking is also required.

— / —

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

GEOMAR Germany CopepodAdaptationGenomics

PhD position available in marine copepod adaptation and population genomics at GEOMAR in Kiel, Germany in the group of Reid Brennan.

Deadline to apply July 28.

Full details and instructions for how to apply available here: https://www.geomar.de/en/karriere/job-single-en/phd-m-f-d-in-marine-evolution-and-population-genomics This project will leverage populations of the copepod, Acartia tonsa, distributed along a salinity and temperature gradient to understand local adaptation and to predict and validate maladaptation to future environment change. Acartia tonsa is an ideal model for this question due to available genomic resources and experimental tractability. This research will leverage phenotypic, transcriptomic, and genomic approaches to answer these questions.

Three full years of funding are available and the start date is flexible.

GEOMAR is federally funded marine institute in Kiel, Germany and Kiel is an evolutionary hotspot in Germany with both GEOMAR and the University of Kiel hosting numerous evolutionary focused research groups. Further, the Max-Planck-Institute for Evolutionary Biology is nearby in Plï¿½n and there is ample opportunity for formal and informal interactions with these institutions. Overall, GEOMAR is a very positive research environment.

The working language of the group and institute is English, no German language skills are required.

Please contact me, Reid Brennan, at rbrennan@geomar.de for more information.

More details of the group available here: https://www.geomar.de/rbrennan/research-group-marine-ecological-genomics Reid Brennan, Ph.D. (he/him) Junior Professor GEOMAR Helmholtz Centre for Ocean Research Kiel Marine Evolutionary Ecology Dï¿½sternbrooker Weg 20, 24105 Kiel Germany

rbrennan@geomar.de +49 431-600-4557 www.reidsbrennan.weebly.com "Brennan, Reid" <rbrennan@geomar.de>

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

Halle Germany SocialEvolutionSweatBees

PhD Position - Halle (Germany) - Transcriptomics and the genomic regulation of eusociality in the sweat bees

We seek a candidate for a fully funded PhD on gene expression and its regulation associated with the gain and subsequent loss of eusociality in halictid (sweat) bees. The successful candidate will join the dynamic and diverse research group of Prof. Robert Paxton (http://www.zoologie.uni-halle.de/allgemeine_zoologie/research/) and work under the supervision of Dr. Antonella Soro (https://www.zoologie.uni-halle.de/allgemeine_zoologie/staff/antonella_soro/). This project is one of several focusing on genetic innovations in insects, which will be carried out across Germany as part of the DFG funded Priority Programme GEvol (http://www.g-evol.com). The main aim of GEvol is to collaboratively and interdisciplinarily exploit new computational and OMICS methods to reveal the history of genomes in the insects by comparative genomics. Being part of this priority program will offer the successful candidate excellent opportunities for networking with leading institutes in evolutionary biology in Germany and abroad and for direct collaboration with Dr Eckart Stolle (Leibniz Institute for the Analysis of Biodiversity Change, Bonn, Germany) and Dr Mark Harrison (University of Münster, Germany). The research project includes fieldwork in Germany, UK and USA as well as the use of multi-OMICs techniques (RNA-Seq and ATAC-Seq) and their corresponding computational approaches. A strong interest in fundamental evolutionary questions such as the evolution of eusociality and knowledge of basic molecular techniques are essential.

Applicants will have a Master degree in biology or bioinformatics, a solid understanding of molecular biology, basic bioinformatics skills and a good level of proficiency in spoken and written English. Knowledge of wild bee biology, experience in designing and carrying out experiments with insects in the field and familiarity with R, Python and Linux environment are an advantage.

Start date: October 1, 2022 or as soon as possible thereafter.

Halle (Saale) is an historical city located 150 km southwest of Berlin, with many like-minded academic institutes in the vicinity (e.g. UFZ, iDiv). For further information contact Dr. Antonella Soro, Tel.: +49-345 55-26504, E-Mail: antonella.soro@zoologie.uni-halle.de.

Applications should quote the registration number 5-7131/22-D and include a cover letter explaining your interests in the PhD position, the contact details of three academic referees and the usual documents (a CV, a digital copy of MSc/Diploma certificates and transcript of records). They should be submitted by July 31, 2022 to Dr. Antonella Soro by email (antonella.soro@zoologie.uni-halle.de) as a single PDF file.

Antonella Soro <antonella.soro@zoologie.uni-halle.de>

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InstZoology Poland AntEvolution

PhD position in Museum and Institute of Zoology, Polish Academy of Sciences:

PL: Ujawnienie mechanizmów wykorzystywanych przez inwazyjne mrówki do adaptacji do aktualnych i przyszłych warunków srodowiskowych EN: Unveiling the mechanisms used by invasive ants to adapt to current and future environmental conditions

We are looking for a highly motivated PhD student to participate in the project: “Unveiling the mechanisms used by invasive ants to adapt to current and future environmental conditions”. The project will be carried out at the Museum and Institute of Zoology, Polish Academy of Sciences in Warsaw (Poland) under the supervision of dr Magdalena Witek and dr Iago Sanmartín-Villar. The project is financed by the National Science Centre, which ensures a PhD student with a monthly tax-free research stipend of 5000 PLN for the first two years and 3654 PLN gross for the two last years funded by a Doctoral School fellowship.

Project description: Behaviour constitutes the first mechanism allowing invasive species to adapt to the introduced areas because it allows them to cope with new problems and pressures. Behavioural plasticity and cognitive traits are correlated in several species with brain complexity. The production and maintenance of sensory, neural, and regulatory mechanisms allowing plasticity involves elevated costs, which suppose a

trade-off with resource allocation in other traits. Social insects could cope with these costs if their behavioural plasticity is based on social communication rather than on individual traits. Species living in vast supercolonies as the Argentine ant (Linepithema humile) might possess the largest advantages in information transmission about environmental use and thus, in adaptation and invasiveness. Unravelling whether the source of plasticity originates at the individual (brain-cognition) or collective (social information transmission) level should be a priority for understanding the invasive potential in social insects. Invasiveness could also be affected by predicted environmental changes, i.e. species would have to adapt to new areas introduced but also to new changes in those areas. Virus infections and temperature fluctuations seem to be the most changing and drastic future events foreseen. Both behaviour and infection potential are conditioned by temperature. Disentangling, how virus infection and temperature fluctuations affect brain-behavioural plasticity would help to understand how supercolony invasiveness will be affected in the near future. We propose to unravel if behavioural plasticity and problem-solving are correlated with brain development or social information in the Argentine ant and in a native species and how these traits are affected by environmental stressors such as virus infection and temperature fluctuations.

Requirements: Successful candidates should have a Master's degree in Biology/Ethology/Ecology. The candidate should have a strong background in evolutionary biology and animal behaviour as well as respect for wild and captive animals. Experience in the behavioural ecology of invertebrates (preferably in social insects), genetic analysis, and statistics will be additional assets. The candidate should have very good oral and written communication skills in English, perseverance, commitment, and the ability to work in a team.

Work description: Successful candidate will perform field work in NW Spain, behavioural tests in laboratory conditions, experimental treatments using a virus and temperature chambers, and analyse behavioural and neuroanatomical data. The PhD student will be guided by members of our team and encouraged to develop her/his own ideas.

Application: Deadline for applications will be 7th of September 2022. The candidates are asked to contact dr Iago Sanmartín-Villar (sv.iago@gmail.com) attaching a single PDF file with: 1. A cover letter describing the motivation and research experiences 2. CV 3. Copy of MSc certificate and 4. Names and contact details of two references.

Selection: 1. Selected candidates will be contacted by e-mail to define a date for an interview which will take place at Museum and Institute of Zoology of Warsaw or by video call.

2. The successful candidate will take part in the exam (middle of September 2022) of the Bio-Planet Doctoral School (http://szkoladoktorska- bioplanet.pl/en/home/).

3. Starting date: 1st October 2022.

Iago Sanmartín Villar <sv.iago@gmail.com>

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JMU Liverpool LizardEvolution DeadlineSep23

Dear all,

Liverpool John Moores University is currently advertising PhD scholarships, with a closing date of 23/09/22, and I am happy to discuss possible research projects with people who wish to apply.

Full details of the scheme are described here: https://www.ljmu.ac.uk/research/phd-scholarships Anybody in possession of an undergraduate degree and a Masters degree, who has (preferably) published one or more articles in peer-reviewed scientific journals and wishes to discuss possible PhD projects on island lizards, or similar, should discuss this with:

Richard P. Brown, School of Biological and Environmental Sciences, Liverpool John Moores University, Liverpool L3 3AF. Email r.p.brown@ljmu.ac.uk Some recent examples of our research: https://www.ljmu.ac.uk/about-us/staff-profiles/faculty-of-science/school-of-biological-and-environmental-sciences/richard-brown
"Brown, Richard" <R.P.Brown@ljmu.ac.uk>

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LMU Munich FireflyGeneExpressionEvolution

PhD Position in Gene Expression Evolution of Fireflies

I invite applications for one doctoral position in my research group at the GeoBio-Center of the Ludwig-Maximilians-Universität (LMU), München. The position is part of the DFG SPP "Genomic Basis of Evolutionary Innovations (GEvol)" (https://-/g-evol.com) which means that you will be part of a large network consisting of 17 projects with 1-2 doctoral students in each project. The topic of our project is gene expression evolution in fireflies (https://-/g-evol.com/abstracts/Abstract_Catalan_Hoehna.pdf). You will be jointly supervised by Sebastian Höhna (https://hoehnalab.github.io) and Ana Catalán (https://www.evol.bio.lmu.de/people/-postdoctoral_researchers/catalan/index.html). 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 October 2022 and 1st October 2023. This project focuses on gene expression data analysis. Therefore, we strongly encourage evolutionary biologists with a keen interest in bioinformatics/statistics or bioinformaticians with a keen interest in evolutionary biology to apply.

A major part of the wide phenotypic diversity that we observe today can be explained by changes in gene expression. Changes in gene expression have been successfully linked to the variation of different trait types. One of the most extreme differences among species are sexually dimorphic traits, many of which can be linked to sex-biased gene expression. In fireflies, sexual dimorphism has evolved several times independently, which makes fireflies an excellent study system for repeated evolution. In this project we want to explore: Which are the selective pressures acting on gene expression divergence? Are the same genes differentiated for other sexually dimorphic species or does each species have their own set of sex-specific genes? We will try to address this question using RNA-seq of ˜15 firefly species from ˜ 6 genera (3 with extreme sexual dimorphism) and performing specific hypothesis tests within a statistical phylogenetic framework. These phylogenetic models will be newly developed within this project.

Your tasks will include: - Joining our efforts to collect firefly samples - Performing bioinformatic analyses to assemble the sex- and tissue- specific gene expression dataset - Either developing yourself (e.g., as an R package or within RevBayes) or testing our newly developed methods for gene expression evolution - Performing a simulation study (e.g., using available R packages) - Leading and performing the statistical analysis of gene expression evolution - Writing research articles - Presenting your work at international conferences

Your required skills: - A Master's degree or equivalent in Evolutionary Biology, Bioinformatics or a similar field. - Good communication skills in English - Good written and oral skills in English- Highly motivated and independent working - Basic knowledge in statistical analysis (e.g., a first course in statistical analyses using R) - Some experience in phylogenetics, gene expression analyses or programming is a plus, but can be acquired during this PhD

What we offer: - Being part of a large network of genome evolution in insects (https://g-evol.com) - Training in genomics and statistical analysis - Opportunities to participate at international workshops and conferences - Working at the LMU Munich, one of Germany's and Europe's top Universities - standard LMU salary scheme for doctoral students (approx. 3050 euro monthly gross salary; approx. 1850 euro monthly net salary). - 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 to enhance the diversity of its faculty members. Furthermore, disabled candidates with essentially equal qualifications will be given preference. Any questions should be directed to Sebastian Höhna (hoehna@lmu.de). Applications, including a cover letter which states your motivation and research idea (1 page), current CV and names and contact details of two referees should be sent to Sebastian Höhna by the deadline of 12 August 2022.

Sebastian Höhna <sebastian.hoehna@gmail.com>

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MacquarieU EvolutionNativeSpecies

PhD opportunity - Macquarie University, School of Natural Sciences, Sydney, Australia

USING ASSISTED EVOLUTION OF NATIVE SPECIES TO ENHANCE CONTROL OF INVASIVE PLANTS

Despite our understanding of the nuts and bolts of evolution, efforts to use that knowledge to benefit biodiversity are largely lacking. One area of enormous potential is the evolutionary manipulation of native species to counter the negative impacts of invasive species. Native herbi-

vores often accumulate on invasive plants and rapidly adapt to them. Invasive balloon vines (genus Cardiospermum) have a well-characterised eco-evolutionary association with native Australian soapberry bugs (Leptocoris tagalicus), which feed on seeds of the vines. This system offers a unique opportunity to 'fast-track' evolution in effective insect-host plant interactions to achieve top-down control of invasive weeds.

A fully Australian Research Council-funded PhD project is available in the School of Natural Sciences at Macquarie University to investigate the evolutionary ecology of soapberry bugs and their native and invasive host plants.

The PhD student will join the Invasive Plant Ecology and Evolution Lab (Jaco Le Roux, see www.lerouxlab.com) and the Landscape Genetics Lab (Rachael Dudaniec, see www.dudanieclab.weebly.com) at Macquarie University. A domestic PhD scholarship and all project costs are fully funded.

Applicants must be AUSTRALIAN CITIZENS or PERMANENT RESIDENTS.

The project will involve the use of morphological data and genomic approaches within field and experimental laboratory settings. The project aims to contribute towards identifying genes underlying soapberry bug traits that enhance host plant exploitation and insect fitness, which may serve as targets for artificial selection, with the aim to control invasive plants more efficiently.

Interested applicants will be highly motivated and have experience in genetics and/or evolutionary ecology research. Applicants will ideally have demonstrable skills in next generation sequencing bioinformatics and population genetic analyses. This project offers field work opportunities in New South Wales, Queensland, and the Northern Territory. For more information or to apply, please send a cover letter detailing your research interests, a CV, and contact details of two referees toJaco Le Roux (jaco.leroux@mq.edu.au) by AUGUST 30th.

Dr Rachael Dudaniec, PhD (she/her) Senior Lecturer School of Natural Sciences Macquarie University Sydney, Australia, 2109 Office: E8A374 Ph: +61 (2) 9850 8193

Landscape Genetics Lab dudanieclab.weebly.com @rdudaniec

Rachael Dudaniec <rachael.dudaniec@mq.edu.au>

MemorialU CaribbeanBiogeography

PhD position at Memorial University of Newfoundland (Canada) - Caribbean Biogeography and Systematics

I am seeking a motivated PhD student to test the role of different hypotheses (e.g. Cenozoic vicariance, overwater 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 MUN, 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 required for admission to the university, but not the GRE tests.

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: www.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 Department 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://cdnsciencepub.com/-journal/cjb jroncal@mun.ca

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NorthCarolinaStateU GeneticsGenomics

North Carolina State University Genetics and Genomics (GG) Scholars Fellowships

The Genetics and Genomics (GG) Scholars program at North Carolina State University is built on the philosophy that the exploration of genes and genomes informs all fields of biology. The GG Scholars Program Fellowships are open to incoming PhD students. Incoming GG Scholars are able to explore a variety of life sciences graduate programs at NC State University during their first year. After Fall semester rotations, students select a specific lab to work in. Please see https://ggscholars.org/ for more details.

The GG Scholars are a strong, cohort-based graduate community representing excellence in education and research. Cultural and scientific diversity is key to the GG Scholars program, and applications are encouraged from students identifying with groups typically underrepresented in STEM fields. GG Scholars are awarded competitive one-year graduate fellowships covering stipend, tuition, and benefits. After their first year, GG Scholars are supported by research and/or teaching assistantships.

GG Scholars will engage in a one-year innovative, project-based curriculum that integrates foundational conceptual training in genetics and genome-scale techniques with big data analysis and professional development. Beyond the first year, the Genetics & Genomics Academy (GGA) provides GG Scholars with a strong community of scientists conducting a broad range of basic and applied research. Throughout their PhD, GG Scholars have opportunities for professional development, including a world-class GGA Seminar Series, interactions with GG Research Interest Groups, and a network of partnerships at the University and beyond to support careers in research, education, outreach, policy, and industry. Please see https://ggi.ncsu.edu/ for more details.

Fred Gould <fgould@ncsu.edu>

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OhioStateU SymbiosesAntEvolution

OhioState.Symbioses&AntEvolution

I am looking for lab members with interest in the evolution, ecology, and behavior of symbiotic interactions in social insects. I believe that the most successful research projects are those in which there is an alignment of my interests and my student's, but I also welcome applicants with ideas for projects that are more independent. Most importantly, students should feel a strong sense of ownership of their thesis projects and the intellectual and physical work involved in making them successful.

Students in my lab are supported through a combination of internal and external fellowships, personal grants and NSF funding. They are expected to actively seek funding and the scope of their thesis research may be influencedby their success. I currently hold two NSF

grants that could potentially support thesis projects: Illumination of behavior leading to host exploitation by a context-dependent mutualist [link] Integrative Systematics: Taxonomy and Evolution of Megalomyrmex Ants and Their Venom [link I aim to provide students with a professional environment where they can thrive as researchers and tools and advice to support personal success.Applicants should have interest and experience in evolution, ecology, microbiology, chemical ecology, and/or behavioral ecology and be familiar with my research program (see https://megalomyrmex.osu.edu/). If you would like to join my research group, please send me a single pdf including 1) a letter of motivation (your-interests, past experience, and why you want to work with me), 2) a CV, 3)an unofficial transcript, and 4) the names and addresses of two references. After we meet I may encourage you to apply to our program (link; fee waivers link).

Transcripts are requested at this stage to determine OSU fellowship eligibility. I strongly believe that opportunities and access are not equallydistributed and that this can be reflected in grades. Please do not let myrequest dissuade you from inquiring.

I am committed to diversifying STEM through the training of students and public outreach. Please read my diversity statement and learn about my lab at https://-megalomyrmex.osu.edu/ . All students who are accepted into the EEOB Graduate Program receive support for 3 (M.S.) or 5 (Ph.D.) years by becoming a teaching or research assistant. No loans are necessary to complete a degree. More details on the EEOB Graduate Program can be obtained at our departmental website (https://eeob.osu.edu/grad/graduate-program). Corey Ash is our graduate student coordinator and can answer questions about graduate admissions. TheEEOB application materials are dueNovember 15thforprogramsto begin the following Autumn. By the time of admission, applicants must have earned a B.Sc. or B.A. from an accredited institution with a major in one of the life sciences.

I look forward to hearing from you! Sincerely, Rachelle M. M. Adams

Rachelle M. M. Adams, PhD Assistant Professor Department of Evolution, Ecology and Organismal Biology, Museum of Biological Diversity MBD 1500, 1315 Kinnear Road, Columbus, OH 43212 614-292-6980 Office / 614-688-4222 Lab   Smithsonian Research Associate Department of Entomology, National Museum of Natural History

10th St. & Constitution Ave. NW Washington, D.C. 20560

  https://megalomyrmex.osu.edu/-adams.1970@osu.edu

(Due to my efforts to strike a work-life balance, I may send emails during early hours or on weekends. Responses are never expected outside your working hours.)

“Adams, Rachelle” <adams.1970@osu.edu>

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SGN Frankfurt HymenopterGenomics

PhD position: Genomic and epigenetic basis of cuticular hydrocarbon diversity in Hymenoptera

The Senckenberg Gesellschaft f??r Naturforschung (SGN) is a member of the Leibniz Associa-tion and is based in Frankfurt am Main, Germany. SGN conducts natural history research with more than 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. For the DFG funded project ???Genomic Basis of Evolutionary Innovations???, Senckenberg BiK-F is looking for a PhD candidate (m/f/d) for studying the genomic and epigenetic basis of cuticular hydrocarbon diversity in Hymenoptera (part time, 65%).

Cuticular hydrocarbons (CHCs) serve insects as desiccation barrier, and chemical communica-tion signals, representing a prime example of a multifunctional trait. Within insects, Hymenop-tera show an astonishing CHC profile diversity. Yet little is known about the evolutionary mechanisms at the genomic and regulatory level that give rise to this diversity.

We aim to fill this knowledge gap by applying a comparative genomic, transcriptomic and epigenetic approach to study this multifunctional trait in a collaborative project in which multiple PIs and two PhD students are involved. In this context, the Menzel research group at the Johannes-Gutenberg-University of Mainz and the Feldmeyer research group at the Senckenberg BiK-Frankfurt offer a joint PhD position (65% TV-L E13 for three years).

We are looking for a highly motivated candidate with interest in molecular evolution, genomics, epigenetics, and chemical ecology. The PhD project will focus on

the identification of gene regulatory mechanisms (including epigenetics) governing species- and sex-specific CHC profile variation in a total of 26 wasp, ant, and bee species.

Your tasks: - CHC profile analysis - RNA extraction and construction of ATAC-seq and whole-genome bisulfite sequence libraries - Bioinformatic analyses - Publication of results in internationally peer-reviewed journals - Close collaboration with the comparative genomics counterpart

Your profile: - Master degree in evolutionary biology, molecular biology, computational biology/bioinformatics or a related subject - Teamwork-oriented, excellent communication skills with proficiency in written and oral English - Interest to collaboratively work in an interdisciplinary team - Previous experience with working on insects, in chemical ecology, molecular biology, statistics, and/or bioinformatics is advantageous, but not mandatory.

What is awaiting you? The successful applicant (m/f/d) will join an international dynamic scientific environment at the Johannes-Gutenberg-University of Mainz (JGU) and the Senckenberg Biodiversity and Climate Research Institute Frankfurt and will have access to state-of-the-art laboratories and computing facilities. He/she will work part of the time at the JGU and at the Senckenberg BiK-F. Both loca-tions are spatially close to each other. The working language in both research groups is English.

Salary and benefits are according to a part-time public service position in Germany (TV-H E 13, 65% for three years).

The Senckenberg Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped appli-cants will be given preference. The employer is the Senckenberg Gesellschaft f??r Naturforschung.

You would like to apply? Please include the reference to this position (ref. #11-22014) in the subject line and include a

-a cover letter outlining your motivation, research interests, and skills on one page -a detailed CV with list of publications, -copies of transcripts, credentials and certificates, -contact details of two potential referees.

Please submit your application until July 25th, 2022, via e-mail as a single PDF file or via our online application tool on our website to:

Senckenberg Gesellschaft f??r Naturforschung, Senckenberganlage 25 60325 Frankfurt am Main E-Mail: recruiting@senckenberg.de

For more information on the project, please contact Dr. Barbara Feldmeyer, barba-ra.feldmeyer@senckenberg.de and PD Dr. Florian Menzel, menzelf@uni-mainz.de.

“Menzel, Dr. Florian” <menzelf@uni-mainz.de>

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TelAvivU HostParasite

PhD in Evolution and Ecology of Host-Parasite Interactions

The position is available in the research group of Prof. Frida Ben-Ami, from Tel Aviv University, Israel (www.ben-ami.com). The position is available starting October 2022.

I am looking for a highly motivated candidate who is interested in host-parasite interactions and coevolution. In my lab, we are using the crustaceans Daphnia and their microparasites as a model system.

The successful candidate will be able to choose a project from a range of projects currently being pursued in in the lab (see below), or to pursue a new research avenue using the Daphnia-microparasites system.

- Host age and parasite virulence: lessons learned from COVID-19

- Multiple infections in a changing world: from the individual to the population/community level

- Climate change and host-parasite interactions

Requirements

- Creative thinking

- MSc degree in biology

- Background in evolutionary biology or ecology - an advantage

- Hands-on experience with experimental work

- Analytical skills and good knowledge in statistics

- Communication and writing skills in English

- Good work ethics

Please send your application by email (all material in one PDF) to Frida Ben-Ami (frida@tauex.tau.ac.il). Applications should include a CV, a list of publications and a statement about research interests (motivation letter).

Please provide names and email addresses of two persons who are willing to write a letter of recommendation.

Prof. Frida Ben-Ami | Life Sciences |

www.ben-ami.com Frida Ben-Ami <frida@tauex.tau.ac.il>

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UAM Poznan ButterflyAdaptation

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 before July 7th.

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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UArkansas CnidarianNeuroEvoDevo

The Nakanishi lab at the University of Arkansas (https://wordpressua.uark.edu/nakanishi-lab/) seeks applicants interested in pursuing an MSc or PhD in biology to start in the Fall of 2023. The lab is interested in addressing fundamental questions in neural development, function, and evolution ("neuro-evo-devo") by studying the biology of early-diverging animal groups - cnidarians (sea anemone and jellyfish) in particular. Current NSF-funded research projects in the lab use the sea anemone Nematostella vectensis to investigate 1) the mechanism by which a single transcription factor controls distinct sets of target genes in different neural cell types, and 2) the mechanism by which neuropeptides modulate the timing of life cycle transition. Students may work on these and related problems in neuro-evo-devo. Student's specific project will be developed based on the student's research interests and educational background, in consultation with the PI of the lab. Research projects may involve gene expression analyses (e.g. in situ hybridization and immunohistochemistry), reverse genetics (e.g. CRISPR-Cas9), embryology (e.g. descriptive morphology, cell-lineage tracing and tissue transplantation), genomics (e.g. RNA-seq and ChIP-seq), and/or advanced microscopy (confocal and electron microscopy, and live-cell imaging). Research and teaching assistantships are available.

Requirements: Bachelor's degree in biology or related field. An ideal candidate will have successfully com-

pleted undergraduate coursework in evolutionary biology and genetics. Research experiences in molecular biology, developmental biology, neurobiology, genomics/bioinformatics and/or microscopy techniques are preferred. Knowledge of invertebrate zoology is a plus but not required.

Application: The applicant may apply through the Department of Biological Sciences (https://-fulbright.uark.edu/departments/biology/prospective-students/apply-for-graduate.php) or through the Cell and Molecular Biology (CEMB) program (https:/-/cell.uark.edu/). The deadline for Fall admission to the Biology Department is January 15, 2023, and that to CEMB January 1, 2023. In order to apply, the applicant will need to submit 1) an official graduate school application form (https:/-/graduate-and-international.uark.edu/_resources/-forms/admission-application.pdf), 2) official academic transcripts, 3) GRE scores, 4) three letters of recommendation from referees in academia, and 5) a program-specific application form (Biology: https://-fulbright.uark.edu/departments/biology/_resources/-pdf/appl-gradasst.pdf; CEMB: https://cell.uark.edu/-info-for-applicants/applicant_profile.php). In addition, the applicant requires a faculty sponsor for admission; the applicant should send an email to Nagayasu Nakanishi (nnakanis@uark.edu) before applying. This email should contain a brief summary of your qualification, research interests and goals, as well as your CV, copies of your academic transcripts, and GRE scores (if available).

Nagayasu Nakanishi, Ph.D Assistant Professor Department of Biological Sciences University of Arkansas Fayetteville, AR 72701 479-575-2031 (office) 479-575-7393 (lab) nnakanis@uark.edu https://-wordpressua.uark.edu/nakanishi-lab/ Nagayasu Nakanishi <nnakanis@uark.edu>

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UBayreuth UDarmstadt Two ForestBiodiversityInChina

Two PhD-positions are open in the new Research Unit MultiTroph “Multi-trophic interactions in a forest biodiversity experiment in China” funded by the German Science Foundation (DFG):

PhD-position 1:

Within the Faculty of Biology, Chemistry & Earth Sciences at the University of Bayreuth, the research group Animal Population Ecology is currently offering a PhD-position (f/m/d) in the DFG RU FOR 5281 MultiTroph

on âdecomposition and decomposer interactions“

Research Field: Entomology, Ecology, Dead wood decomposition, Ecosystem Functioning

Duration: 4 years

Payment according to TV-E 13 65% (ca. 2800 €per month before tax, depending on qualifications)

Starting date: 01.10.2022

Application submission deadline: 15.07.2022

The Animal Population Ecology Group (Prof. Heike Feldhaar) (http://www.bayceer.uni-bayreuth.de/-toek1_pop/index.php?lang=de) is seeking a highly motivated candidate to study the diversty of wood-decomposing insects, their trophic interactions, and their impact on wood decomposition in the new Research Unit MultiTroph “Multi-trophic interactions in a forest biodiversity experiment in China” funded by the German Science Foundation (DFG). The RU MultiTroph is part of the Biodiversity-Ecosystem Functioning China (BEF-China) research platform. The platform was established in 2008 by Chinese, German and Swiss researchers (https://bef-china.com) and comprises the largest tree diversity experiment worldwide. The position with the aim to gain a doctoral degree in ecology is led by Prof. Dr. Heike Feldhaar (University of Bayreuth) and Dr. Simon Thorn (Hessisches Landesamt für Umwelt Naturschutz und Geologie, Staatliche Vogelschutzwarte).

The PhD candidate will characterize the functional and taxonomic diversity of saproxylic insect communities in relation to wood traits. For ants and termites, we will assess species pools from the forest floor since the presence of predatory ants may prevent other insects

from colonising dead wood. The impact of insects on wood decomposition will be quantified by exposing dead wood from different tree species and either allow insect colonization or exclude insects.

Candidates interested in this position should have an excellent M.Sc. in Biology/Ecology or related areas. Ideally, the candidate has experience with field work in remote areas and under challenging climatic conditions. Skills in statistical data analysis (preferably with R) are expected. A focus on entomology and especially experience in the determination of arthropods would be a special benefit. You should be able to spent several months in China for field work, to work independently with high self-motivation but embedded in the interdisciplinary MultiTroph team. Fluency in written and spoken English and a high motivation to learn the basics of German and Chinese are required.

Contact and application procedure: Applications should include a letter of motivation, a complete CV including a list of publications (if any), a sample of scientific writing (e.g. pdf of your MSc thesis), copies of relevant certificates and names of two references. Applications should be submitted as a single pdf file (max. 10 MB) to feldhaar@uni-bayreuth.de using the subject "MultiTroph_SP1_PhDposition". The University of Bayreuth views the diversity of its staff as an asset and is expressly committed to the goal of gender equality. Women and any persons who can help make the research and teaching profile of the university more diverse are strongly encouraged to apply. Applicants with children are very welcome. All qualifications being equal, applicants with disabilities will be given priority.

For further information please contact Prof. Dr. Heike Feldhaar (feldhaar@uni-bayreuth.de).

PhD-position 2:

The Ecological Networks Group (www.econetlab.net) at the Department of Biology, Technical University Darmstadt offers

Research position (f/m/d) in the DFG RU FOR 5281 MultiTroph

Research Field: Entomology, Ecology, Ecosystem Functioning

Duration: 4 years

Payment according to TV-TU Darmstadt 13 65% (ca. 2850 €before tax, depending on qualifications)

Starting date: 01.10.2022

Application submission deadline: 31.07.2022.

The Ecological Networks Group is seeking a highly motivated candidate to study ant diversity, tropic interactions and related ecosystem functions in the new Research Unit MultiTroph "Multi-trophic interactions in a forest biodiversity experiment in China" funded by the German Science Foundation (DFG). The Research Unit MultiTroph is part of the Biodiversity-Ecosystem Functioning China (BEF-China) research platform. The platform was established in 2008 by Chinese, German and Swiss researchers (https://bef-china.com) and comprises the worldwide largest tree diversity experiment.

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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

UInnsbruck EcoEvolAdmix

PhD position University of Innsbruck: A PhD position is available within a 6-yrs FWF START project on eco-evolutionary dynamics and admixture led by Markus Moest at the University of Innsbruck. We investigate admixture in an aquatic keystone grazer and study the consequences of admixture on eco-evolutionary dynamics in the context of global change on the species, communities and ecosystem level. The position is funded for 42 to up to 48 months.

Your project The successful candidate will be involved in a large field campaign collecting plankton and sediment cores in peri-Alpine lakes and is responsible for characterizing genomic and phenotypic patterns of admixture in Daphnia species. Moreover, the candidate will run mesocosm experiments at the University's Research Institute for Limnology (ILIM) in Mondsee and study the consequences of admixture on eco-evolutionary dynamics.

Your skills The planned work will require a high degree of independence and the ability to work in a team. Prior experience in any of the following areas will be an advantage but is not strictly required: (i) molecular lab and field work, (ii) analysis of whole-genome or reduced-representation sequencing data, (iii) and basic programming skills (e.g. R, Python, bash). The work with an international and diverse team and several international collaborators requires English skills.

What the position offers The annual gross salary is ~32.000 EURO. The contract includes health insurance and 5 weeks of holidays per

year. Furthermore, the university has numerous attractive offers: https://www.uibk.ac.at/universitaet/-zusatzleistungen/index.html.en I aim to ensure an excellent working environment in which everyone can contribute their experience, ideas and ways of thinking and I offer and support professional training. Moreover, I strive for cultural and gender equity, diversity, and inclusion for anyone to be involved in this project. Candidates with a broad range of backgrounds, perspectives, and ideas will be welcomed and are encouraged to apply. For more information on the position, the project, the group, or the University, please do not hesitate to contact me(Markus.Moest@uibk.ac.at).

How to apply I am looking forward to receiving your application. Please send a single pdf file including a letter of motivation, curriculum vitae, a list of publications (if any) and contact details of two references to Markus.Moest@uibk.ac.at. Applications should be written in English.

Mï¿½ST Markus, PhD University of Innsbruck Technikerstrasse 25 (Room 517) A-6020 Innsbruck Tel: +43 (0)512 507-51771 Fax: +43 (0)512 507-51799 E-mail: Markus.Moest@uibk.ac.at

"Mï¿½st, Markus Hartmann" <Markus.Moest@uibk.ac.at>

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UiT Norway EvolutionBirdClocks

Dear all,

We have a funded PhD position available in the topic of "wild clocks" to study latitudinal adaptation of circadian clocks using the songbird great tit as a model system.

The PhD will be based at the Arctic Chronobiology and Physiology research group of the UiT in Tromsø, Norway (https://en.uit.no/forskning/forskningsgrupper/-gruppe?p_document_id=340897) and part of the Arctic seasonal timekeeping initiative (https://uit.no/-research/asti).

The main goals of the project will be: 1) Characterize populational differences in clock properties, focusing on latitudinal differences; 2) Investigate the genetic basis of such differences through a "common garden" approach 3) Develop methods that allow linking circadian clock properties and fitness in wild animals and apply them to the studied populations.

The project will take advantage of an ongoing common-garden experiment that prof. Marcel Visser, prof. Kees van Oers and I initiated in 2021. So, the position also involves experiments at the Netherlands Institute of Ecology in Wageningen, the Netherlands (https://-nioo.knaw.nl/en).

Please see the full description and application details in the link below: https://www.jobbnorge.no/-en/available-jobs/job/227683/phd-fellow-in-arctic-chronobiology-and-physiology Deadline is August 15th 2022.

Feel free to contact me if you would like more information!

Best wishes, Dr. Barbara M. Tomotani <babi.mt@gmail.com> Present: VENI post-doc at the Animal Ecology Group, Netherlands Institute of Ecology, the Netherlands As of August 2022: Researcher at the Arctic Chronobiology & Physiology Group, Department of Arctic and Marine Biology, UiT - The Arctic University of Norway, Tromsø

Barbara Tomotani <babi.mt@gmail.com>

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UMelbourne EvolutionIridescence

PhD Position - Sensory Biology University of Melbourne

We are seeking a PhD student to join a supportive and diverse research team investigating the function and evolution of iridescence and gloss. The project is supervised and supported by Dr Amanda Franklin and Prof Devi Stuart-Fox. The student would be based in the School of BioSciences at the University of Melbourne with scope to collaborate more widely.

Project Description Iridescence and gloss are common throughout nature resulting in many dynamic and changeable visual effects. Despite the prevalence and long-term scientific interest in these dynamic visual effects, we have limited understanding of the function and evolution of these effects. The aim of this project is to use behavioral studies with different animals (e.g. beetles, jumping spiders, birds) to uncover the function of dynamic visual effects. The project is flexible and can align with the interests of the student, but would

likely involve field work and lab work, and could include phylogenetic comparative analyses. The student will be an integral part of the team and will have the opportunity to develop their own research interests throughout their PhD.

Location The University of Melbourne is situated just north of central Melbourne, and is surrounded by good restaurants, bars, cafes. Melbourne always has something to see or do, including galleries, music, theatre, or sport. You will have the opportunity to see what Melbourne has to offer with the supportive team of students, postdocs and academics that you will join. The School of BioSciences hosts a vibrant, diverse research community and provides access to cutting edge equipment.

Requirements The successful applicant will be assisted in applying for a Graduate Research Scholarship. These awards are competitive, so a First-class Honours or Masters Degree (or equivalent) or publication in international journals is essential. https://scholarships.unimelb.edu.au/awards/-graduate-research-scholarships To apply, please send 1) A brief letter outlining your research interests, 2) a CV, 3) your academic transcript/grades, 4) contact details for two referees (including a research supervisor). Please send materials to Amanda by August 31st.

Any questions or for further information, please contact Amanda Franklin, amandaf@unimelb.edu.au

https://devistuartfox.com/ https://-findanexpert.unimelb.edu.au/profile/413220-amanda-franklin https://biosciences.unimelb.edu.au/ Amanda Franklin (she/her) | Melbourne Postdoctoral Fellow School of BioSciences | Faculty of Science BioSciences 4 The University of Melbourne, Victoria 3010 Australia T:ï¿½+61 3 8344 1978ï¿½E:ï¿½amandaf@unimelb.edu.au

Amanda Franklin <amandaf@unimelb.edu.au>

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UMilan Biodiversity

PhD scholarship in Sustainable Development and Climate Change

We are looking for a highly motivated PhD student in Sustainable Development and Climate Change, with particular interest in biodiversity, ecosystem functions and global change biology.

Starting date: 01.12.2022

Position duration: 3 years

Level of activity: 100%

Work location: University of Milan, Italy

Thesis description:

An iconic sign of global warming is the retreat and extinction of glaciers worldwide. However, lack of comprehensive system-level studies impairs our ability to predict the fate of biodiversity and the functioning of ecosystems in front of retreating glaciers. To address such challenges,it is crucial to go beyond the traditional approach of examining individual species in isolation and overcoming the difficulties associated with addressing complex biogeochemical cycles and socio-ecological processes. Our objective is to (1) Understand the evolution of ecosystem functioning and their benefits to society; (2) Develop predictive models of ecosystem functioning, and (3) Design systemic nature-based interventions for mitigating the risk of ecosystem functioning collapse.

A PhD position is open in the Biodiversity Change group of Gianalberto Losapio and Plant Biology group of Marco Caccianiga at University of Milan. This scholarship is funded by the Italian National Recovery and Resilience Plan (PNRR) of the Next Generation EU Fund. The candidate will be enrolled in the PhD school in Sustainable Development and Climate Change, curriculum 'Health and Ecosystems'. The PhD student will develop their own research thesis within the project 'Forecasting the consequences of glacier extinction for ecosystem functioning'. They will work in a multicultural, diverse, collaborative, and dynamic environment. We provide great opportunities for academic and professional training as well as acquisition of transversal skills. We offer stimuli for developing critical thinking and to become an independent scientist. In all, we are both professional andempathic. Salary and benefits are internationally competitive.

Candidate profile:

We are looking for a highly motivated, enthusiastic, and independent student with passion for nature and science. Talented students with a master degree in biodiversity, environmental sciences, ecology, or plant sciences interested in taking an integrative approach are particularly encouraged to apply. Applicants are expected to have fieldwork experienceand good quantitative skills. A high level of written and spoken English proficiency is required.

Application documents: Please send your application

including: (1) Curriculum Vitae, indicating education, qualifications and training path, research and work experience, list of publications, academic and professional experience (2000 words); (2) Research Proposal including abstract, research scope and questions, methodology, expected results and impact (1000-2500 words); (3) Letter of Purpose specifying your motivations, interests, relevant skills and experience (500 words); (4) Degree Certificate, Diploma Supplement or Transcript of records. In your application, specify the 'CU6.02' research topic.

You can find more information at https://-www.phd-sdc.it/ Only applications submitted via following platform will be considered https://-iusspavia.esse3.cineca.it/ For informal inquiries do not hesitate to contact us at Gianalberto.Losapio@unimi.it and Marco.Caccianiga@unimi.it For further information please contact phd-sdc@iusspavia.it

Application deadline:

5 August 2022 at 1 pm CET

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Gianalberto Losapio <gianalberto.losapio@unimi.it>

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UMississippi ComparativePhylogeography

The Garrick lab (www.rcgarrick.org) in the Department of Biology at the University of Mississippi is seeking a graduate student with interests in reconstructing long-term population history (e.g., size and range changes, divergence and/or merging events etc.), and assessing the extent to which co-distributed members of the same community exhibited shared responds to past environmental change.

The student will be part of a larger project focusing on ecologically co-associated deadwood-associated forest arthropods in the southern Appalachian Mountains, but it is expected that the student will be creative and take things in their own direction within this system. This could include (but is not limited to) conducting field-intensive ecological research, performing simulation-based assessments of phylogeographic inference methods, or developing long-term outreach / collaboration with citizen scientists in and around spiritual homeland of the Cherokee, or an Appalachian-based CURE.

Interested students are encouraged to directly contact Ryan Garrick (rgarrick@olemiss.edu). The graduate school application deadline for Department of Biology at the University of Mississippi is early October 2022 for a Spring 2023 start, and early February 2023 for a Fall 2023 start. Accordingly, it is not too soon to begin a conversation about the potential alignment of interests and fit.

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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UNamur Belgium AdaptiveGenomicsPhysiology

A full-time position is available as a PhD researcher and Teaching Assistant in the department of Biology, Research Unit of Evolutionary Biology (RBE) at the University of Namur, Belgium. The anticipated start date is in October 2022

The main responsibilities of the student are: - Supervise practical and/or directed research, for BSc and MSc courses in Physiology, Ecophysiology, Evolutionary Genetics and Molecular Ecology. Co-organize and supervision a BSc field course in Ecology (more information in the link at the bottom). - Undertake research for a doctoral thesis. The project is somewhat flexible depending on the candidate's research interests, but will focus on the genomic basis of adaptation and adaptive differences between species. The student can combine physiological tests, laboratory work, and bioinformatics. Our group focuses on adaptation to new temperatures and the interaction between stressors in non- model (mainly aquatic) invertebrates; - Participate in events and the organization of URBE and the Biology department

Requirements - Hold a bachelor's degree / master's degree 120 in biology or bio- engineering, ecology, evolution or equivalent - Demonstrate a strong interest in teaching

at the university level - Have research interests centered on adaptive evolution, genomics and/or adaptive physiology - Be able to work in a team and to share your time between teaching and research - Be familiar with the R statistical platform, or very motivated to acquire this skill - Be able to communicate (written and oral) in English, and ideally in French as well. Interested non French speakers are welcome to send informal inquiries

For further information, informal questions are welcome to: Dr. Alice Dennis Laboratory of Adaptive Evolution and Genomics, University of Namur, URBE, Rue de Bruxelles 61 - 5000 Namur, Belgium Telephone: +32 81 72 44 14 alice.dennis@unamur.be adennis5.wordpress.com

or

Dr. Frï¿½dï¿½ric Silvestre, Director of the Department of Biology, University of Namur, 61 - 5000 Namur, Belgium Telephone: +32 81 72 42 85 frederic.silvestre@unamur.be

Further information (in French): https://-jobs.unamur.be/emploi.2022-06-16.2015968385/view https://www.unamur.be/sciences/biologie/urbe –

Alice Dennis alicebdennis@gmail.com

Adaptive Evolution & Genomics University of Namur, URBE Rue de Bruxelles 61 - 5000 Namur Belgium

adennis5.wordpress.com Are you working on mollusc genomics? Join mGIG: https://mgig.weebly.com/ A Dennis <alicebdennis@gmail.com>

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UNewSouthWales FitnessAndAgeing

Graduate positions

The transgenerational dimension of ageing: How do parental age and environment affect offspring?

Location: Bonduriansky lab, Evolution & Ecology Research Centre and School of Biological, Earth and Environmental Sciences, UNSW. UNSW is one of Australia's top research-intensive universities. The Evolution & Ecology Research Centre includes labs working on a range of topics in evolutionary ecology and genetics.

Project: How do maternal and paternal ages at breeding, and the ambient environment experienced by parents, affect the development and fitness of descendants? Despite over a century of research on the biology of ageing, one intriguing aspect of ageing - the widely observed tendency for older parents to produce offspring with reduced lifespan and fitness - remains poorly understood. Such effects could be a major source of variation in individual fitness, and could play a role in the evolution of ageing. This research will address the mechanisms mediating these effects, the roles of mothers vs. fathers, the role of the ambient environment, and the potential for effects to be transmitted over multiple generations. A key goal is to gain a better understanding of the role of nongenetic hereditary mechanisms in mediating the effects of age at breeding on descendants' development. The research will involve experimental and molecular work on insects, and can involve the development of new theory. PhD students in the Bonduriansky lab are expected to play a central role in developing their own research questions and projects, and to be able to work independently.

A funded PhD position is available. Applicants should be highly motivated to pursue fundamental research, and should have a strong academic background and previous research experience in evolutionary biology (preferably including publications) as well as good writing and quantitative skills. Both domestic and international students are welcome to apply. If interested, please submit a brief statement outlining why you are interested in this project, an academic CV, and contact details for two academic referees. The successful applicant will be invited to apply through the UNSW Graduate Research School admission system. The PhD scholarship covers tuition and stipend for 3.5 years of full-time study at UNSW.

r.bonduriansky@unsw.edu.au

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UPorto EvolutionaryGenomicsHybridization

Call for a PhD student in Evolutionary Genomics at the Universities of Porto and Montpellier

Genomics of ancient hybridization

We are looking for a strongly motivated graduate student interested in pursuing a PhD degree in Evolutionary Ge-

nomics in collaboration between CIBIO-InBIO, University of Porto (https://cibio.up.pt/) and ISEM, University of Montpellier (http://www.isem.univ-montp2.fr/-en/).

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

Application deadline: 25 October 2022

Project Description: The causes and consequences of ancient hybridization among hares

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

This project will allow the acquisition of skills in bioinformatics and sophisticated cutting-edge population and evolutionary genomics, by handling large-scale genomic datasets. This work is expected to have a general impact on the understanding of speciation and evolution through genetic exchange, broadening our understanding of biodiversity beyond species inventories.

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

Required Qualifications: - Bachelor or Master degree in Biological Sciences or related areas; - Candidates should be highly motivated and demonstrate strong interest in Evolutionary Biology. - Preference will be given to candidates with experience in analyses of high-throughput sequencing data, and bioinformatics skills, and with a record demonstrating these skills. - Good writing and communication skills in English, excellent teamwork skills, and ability to work independently. - Availability for mobility between CIBIO-InBIO (Vairão, Portugal) and ISEM (Montpellier, France). Specific funds are available to sustain such mobility. - The successful applicant must be resident in Portugal at the start of the PhD.

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

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UTasmania PlantEvoBiol

Applications are open for three PhD scholarships (AU$28,854/year, full time for 3.5 years) for projects at the University of Tasmania (Australia), focussing on the evolution of plant mechanisms for:

A) Stomatal opening (co-supervised by Dr Frances Sussmilch, and Profs Tim Brodribb and Sergey Shabala):

Project 1 (Molecular Biology/Bioinformatics) - https://www.utas.edu.au/research/degrees/available-projects/accordion-projects/science-technology-and-engineering/area/biological-sciences/how-do-plants-open-up Project 2 (Plant Physiology/Molecular

Biology) - https://www.utas.edu.au/research/degrees/-available-projects/projects/biological-sciences/which-plants-open-their-mouths-on-time B) Cellular responses to water (co-supervised by Dr Frances Sussmilch, and Profs Tim Brodribb and Steve Smith; position part of the ARC Centre of Excellence for Plant Success - https://www.plantsuccess.org/):

Project 3 (Plant Physiology/Genetics/Molecular Biology): https://www.utas.edu.au/research/degrees/-available-projects/projects/biological-sciences/-Evolution-of-plant-cellular-responses-to-water Applicants who meet the selection criteria listed in the individual project description, including holding a first-class Honours degree or equivalent qualifications and experience in the fields listed for each project are encouraged to apply.

Interested students should send their CV and cover letter citing their interest in any or all projects to Frances.Sussmilch@utas.edu.au.

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

VictoriaU NewZealand FishPopulationGenomics

VicUniNewZealand.FishPopulationGenomics

Population genomic analysis of the Aotearoa New Zealand Yellowtail kingfish - haku for community-led aquaculture

We are seeking a highly motivated PhD student for a project that aims to sequence the kingfish (Seriola lalandi) genome, conduct a population genomic study, and help prepare this species for a community-led MÃÂori aquaculture initiative in Aotearoa New Zealand. Yellowtail kingfish - haku (Seriola lalandi) is a fish species that is widely distributed around the inshore areas of New Zealand and in many other parts of the warm-temperate waters of the southern hemisphere. This species has been an important food source for MÃÂori (the indigenous people of Aotearoa). Little is known about its stock structure and the patterns and distribution of genetic diversity. Kingfish / haku has been identified as an ideal candidate for aquaculture and NgÃÂ Iwi i te Rohe o Te Waiariki - a community led initiative - are developing it as a new aquaculture species. This species has been successful farmed in other parts of the world. The goal of this project is to determine a reference genome of kingfish and obtain a set of genome-wide markers. These will be used to test for population genetic differences, conduct a seascape genomics study, and establish a marker set for a genomic selection programme. A genomics approach will enable a precise determination of gene flow levels using both neutral and selectively important loci. This project will enable a successful candidate to obtain a comprehensive skill set in genomics and bioinformatics, discover new patterns of genomic variation, gain experience engaging with research and primary industries, and get to work with and learn more about indigenous communities. This position will be based at Victoria University of Wellington (https://www.wgtn.ac.nz) and there will be opportunities to work closely with researchers at Plant and Food Research (http://www.plantandfood.co.nz). This ambitious and innovative project will provide the level of resolution needed to identify genomic regions that have experienced selection and make precise population genetic and demographic inferences possible.

This project will provide an excellent opportunity to develop skills in the areas of genomics, bioinformatics and population genetics, and how they can be used to support community-led aquaculture developments. The PhD student will gain experience working with two highly active research groups and have the opportunity to be part of Genomics Aotearoa. The PhD student will be a member of a supportive and cooperative research group and help develop population genomics and support the aspirations of a MÃÂori community led initiative. This project has been designed to progress and support the Smart Maori Aquaculture Initiative led by the NgÃÂ Iwi i te Rohe o Te Waiariki towards developing a sustainable, resilient and world-class MÃÂori aquaculture industry in the Bay of Plenty (https://-smartmaoriaquaculture.co.nz/).

Project Supervisors Associate Professor Peter Ritchie, Victoria University of Wellington (VUW), New Zealand

Associate Professor Maren Wellenreuther, Plant and Food Research (PFR), Nelson, and School of Biological Sciences, University of Auckland, New Zealand

The successful candidate will be a highly motivated

researcher, with a strong background and interest in genomics and molecular evolution. Experience with a coding and/or scripting languages will be an advantage. This position will be based at Victoria University of Wellington and comes with a three-year scholarship that provides a stipend (NZ$27,500 pa) and covers the university tuition fees. This project is supported by Genomics Aotearoa (https://www.genomics-aotearoa.org.nz)

Applicants should send a CV, contact details of two academic referees and a cover letter that states why you are interested in the position and how your qualifications and experience make you a good fit for the proposed research. Send these to Peter Ritchie (E-mail: Peter.Ritchie@vuw.ac.nz) and Maren Wellenreuther (Maren.Wellenreuther@plantandfood.co.nz). Candidate selection will begin in July. Applications will be considered until the position is filled. The ideal starting date is 1 October 2022 but a later date is possible. International applicants with strong academic record are encouraged to apply. For more information about studying at VUW and the entry requirements for the PhD program please see http://www.victoria.ac.nz/study/-programmes-courses/postgraduates/phds-doctorates
Peter Ritchie <peter.ritchie@vuw.ac.nz>

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Jobs

Allelica SeniorScientist

Allelica is looking for Senior Scientists to join its growing research team. This is an exciting opportunity to contribute to the translation of research into products that will be used in the clinical management of common disease.

About us

Allelica builds software to enable research institutes and health systems across the globe to develop and deploy polygenic risk scores (PRS). High quality research underpins our products and our research team has brought together large datasets and a suite of cutting edge algorithms to develop clinical tools to integrate genomics data in healthcare.

We are looking for experienced and talented computational and statistical geneticists to join our team. Working in a fast paced environment, you will take a leading role in developing and deploying PRS to improve precision genomics across a range of common disease areas (including cardiovascular disease, cancer, diabetes, and others).

Working collaboratively, you will use your knowledge and experience to run new models and disseminate the outcomes internally across the organisation, at scientific conferences, in peer reviewed publications, and externally to our customers. The role offers the right candidate the opportunity to be at the forefront of preventative genomics at a time when the use of genomics in healthcare is rapidly expanding.

The role will involve: - working with Allelica's executive team to help deliver our scientific strategy - writing reproducible and scalable computational pipelines (in R/python) to analyse genomic and clinical research data - taking a lead in writing up research and ensuring that scientific outputs are coherent, robust and delivered on time

Requirements - A PhD in bioinformatics / computational genomics / genetics (individuals without a PhD but with >5 years experience in genomics research will also be considered) - Proven experience working on large genomics datasets working in at least one of the following computing languages (R/python) - Experience developing genomic analyses (preference will be given to candidates with experience in PRS) - Experience writing scientific publications - A can-do attitude, willingness to learn on the job and ability to manage competing priorities and deliver to tight deadlines

Allelica has offices in New York, Rome and Oxford but this role is open to anyone who can work remotely. We offer a competitive salary and the opportunity to contribute to the translation of genomic science into healthcare.

Interested candidates should email george@allelica.com with a copy of their CV and a brief cover letter detailing how they meet the job requirements.

George Busby <george@allelica.com>

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Barcelona TranscriptomeBioinformatics

We have opened a new vacancy in the Life Sciences department, and we would be grateful if you could share them with your contacts:

* Junior Research Engineer - Bioinformatician in Transcriptomics (RE1) < https://www.bsc.es/join-us/job-opportunities/10522lstfgre1 > - Deadline 16/09

Thank you!

Laura Delshams /Human Resources - Talent & Development Officer/ *Barcelona Supercomputing Center - Centro Nacional de Supercomputacion* Tel. +34- 93 413 40 72 laura.delshams@bsc.es www.bsc.es Laura Delshams Munoz <laura.delshams@bsc.es>

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BrighamYoungU EvolutionaryBiologist

Job Title: Biology - Evolutionary Biologist

Job Classification: Full-time faculty, CFS Professorial

Department/College: Biology/Life Scientist

Desired Start Date: 09/01/2023

Job Close Date: 08/01/2022

Required Degree: Ph.D.

Required degree must be completed by start date.

- Postdoctoral Experience Preferred.

Experience: The Department of Biology seeks to fill a full-time, Continuing Faculty Status (BYU's equivalent

to tenure)-track position in evolutionary biology. Excellence in teaching is required with expertise in using evidence-based pedagogies expected. Teaching responsibilities will include core courses in the biology major (Introductory Biology, Evolutionary Biology, and/or a course related the candidate's taxonomic specialty) with opportunities for possible development of a course in the candidate's area of research expertise. The department welcomes all areas of specialization within evolutionary biology and expects the successful candidate to be a committed, imaginative and collaborative scholar with a vision for research, mentoring and teaching. Taxonomic expertise or specialization in an organismal group is desirable. There are many opportunities for collaborative and cross-disciplinary links across campus (e.g., the MLB Life Science Museum collections and exhibits, the BYU DNA Sequencing Center, and the Lytle Ranch Preserve). The qualified candidate is required to have a PhD, with postdoctoral experience desired, and maintain an externally funded research program that supports diversity and inclusion while mentoring both undergraduate and graduate students. The department offers competitive start-up packages and reduced teaching loads for new faculty.

Applying: Candidates should have experience in, or the potential for, building an equitable and diverse scholarly environment in teaching, mentoring, research, life experiences, and/or service. All qualified individuals, including women, people of color, and people with disabilities, are encouraged to apply.

Interested persons should apply online at https://-yjobs.byu.edu (job ID 110066) by completing a faculty application, and attaching a current CV, cover letter, and statements of teaching and research interests. As part of the cover letter, we invite candidates to describe their experiences engaging a diverse student body.

Questions may be directed to Seth Bybee, seth.bybee@byu.edu, Evolutionary Biology Search Committee Chair, 4012 LSB, Department of Biology, BYU, Provo, UT 84602 or bio@byu.edu.

The review process will begin August 1st, 2022, but will remain open until filled. Additional department and college information is available at: https://-biology.byu.edu/ . *Information required at the time of application -* Provide contact information for three references on the faculty application. They may be contacted to submit letters of recommendation electronically at some point during the selection process.

*Document(s) required at the time of application *- Please attach your updated Curriculum Vitae, cover letter, teaching statement, and research statement to the faculty application.

Seth Bybee, PhD Associate Professor Department of Biology Assistant Curator MLBM 4057 LSB Brigham Young University Provo, Utah 84602

Seth Bybee <seth.bybee@gmail.com>

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ChicagoZoolSoc QuantBiologist SpeciesConservation

Quantitative Biologist Species Conservation Toolkit Initiative Chicago Zoological Society (CZS)

The Quantitative Biologist will work as part of the small team of conservation scientists at the Species Conservation Toolkit Initiative (SCTI) to design, build, and support software that is used globally by wildlife managers, researchers, and students. SCTI is a multi-institutional, international partnership to ensure that the new innovations and tools needed for species risk assessment, conservation planning, and managing populations are developed, are globally available, and are used effectively. The initiative leverages expertise in population biology, computer programming, and species conservation planning. You may learn more by visiting https://scti.tools/ Partial list of primary duties and responsibilities: Participate in the creation of novel software solutions and enhancement of existing software packages to both solve immediate conservation needs and improve the state-of-the-art for conservation software tools. Remain connected with the conservation community to understand current and emerging software needs. Work with SCTI, CZS, and external scientists to write, develop, and coordinate grant applications to fund SCTI activities and needs. Coordinate and conduct research that furthers our understanding of population management and sustainability. Work collaboratively with other scientists within SCTI, CZS, and the greater conservation community. Prepare reports for scientific peer-reviewed publication and presentation at professional meetings. Communicate progress and advances in software tools to the conservation community. Coordinate or assist in educational, outreach, and other special programs (modeling training, conservation workshops, etc.) to meet the needs of the conservation community. Provide technical support and help to provide training to conservation professionals and graduate students using modeling methods and tools. Manage SCTI cloud resources including the team website and

communication suite.

The requirements include the following: - Master's degree in conservation biology, evolutionary biology, population biology, or related field. - Three years of experience in conservation biology research or species management required. - Ability to learn object-oriented programming languages, CMS administration, and modern software architecture patterns. - Excellent verbal and written communication skills, including proven ability writing reports and scientific papers, grant proposal preparation, and oral presentations. - English fluency at a full professional proficiency. - Ability to work independently and collaboratively as part of a team. - Experience or ability to work and interact effectively with a diverse, multicultural audience.

The preferred qualifications include: - Ph.D. in conservation biology, evolutionary biology, population biology, or related field. - Broad research and conservation interests. - Experience using SCTI software (Vortex, PMx, Outbreak, or MetaModelManager) or other wildlife modeling software (i.e., RAMAS, ST-Sim, HexSim, etc.). - Experience in population viability analysis or management of in situ or ex situ populations. - Experience with user interface design, system architecture design, and cross-platform development. - Multilingual ability.

This is a full-time, three-year temporary position. If interested in being considered for this opportunity, please visit the CZS Career Center to obtain more details about the position and to apply by submitting your profile. Please visit our website at www.czs.org/careers and look for requisition number 2362BR.

Bob Lacy <bob@scti.tools>

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CornerstoneGenomics GenomeScientist

Job:CornerstoneGenomics.GenomicsScientist

It's our mission at Cornerstone Genomics Inc. to create digital tools that dramatically accelerate research in human and wildlife biology. Our serverless web application, CodeXomeï¿½, provides scientists with the means to precisely and rapidly assess the impact of gene variation on biological function or disease. As part of our Genomics Research and Development team, you will play a critical role in building the most comprehensive comparative genomics application on the market. We strive to provide users with tools powerful enough to meet the moment of this era of big data, while presenting these findings in an equally elegant and clear form. Your contributions and innovations will directly benefit our clients in academic, government, and corporate institutions, accelerating their speed to discovery, and providing clarity in their genomic research efforts.

A central focus of this position is to utilize long-read sequence data to model gene evolution. The first major priorities include evaluating and optimizing existing de novo genome assembly algorithms using PacBio HiFi reads, then designing strategies to align genes among taxa. As a comparative genomics platform, these assemblies serve as the foundation for multiple avenues of further research including, but not limited to: (1) identifying orthologous sequences; (2) modeling ancestral haplotypes; (3) clarifying patterns among or between clades of taxa (ex. Core vs. accessory genes, Methylation signatures, Structural variation). Another core component of our platform is providing users with functional information thus, this position will also entail utilizing data to ascribe and quantify features like selection and conservation across genomes.

We are seeking someone who wants to use more than just their technical skill set: we are a group of problem solvers drawing upon a diverse set of professional backgrounds to lay the foundations of our start-up. We are a collection of fearless teammates - people willing to fail forward each day, and put aside any feelings of imposter syndrome. We seek communicators who find creative ways to share their domain knowledge with the rest of the team and our customers.

We encourage applications from all authorized to work in the USA, and some eligible candidates may also qualify for the IPERF National Science Foundation program (optional).

Applications accepted until August 20, 2022. Salary negotiable starting at $78,000 Full health care provided We are located in Frederick, Maryland or Cape Cod, Massachusetts but remote work options within USA are possible.

Website: Cornerstonegenomics.com

Jill Pecon-Slattery, Ph.D. CEO and Founder Cornerstone Genomics Inc

Questions? Please contact jill@cornerstonegenomics.com We will answer you within 24 hours.

How To Apply: Please send to jill@cornerstonegenomics.com 1) Cover Letter de-

tailing how you meet the job requirements and shared interests 2) CV 3) Names and contact information of 2 references

Jill Pecon-Slattery, Ph.D. CEO and Founder Cornerstone Genomics < https://cornerstonegenomics.com >INC - Frederick, MD 21702

Jill Pecon Slattery <jill@cornerstonegenomics.com>

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DenverMuseumNature ZoologyCollectionsManager

Denver Museum of Nature & Science Zoology Collections Manager

Apply here: https://phf.tbe.taleo.net/phf01/ats/careers/v2/viewRequisition?org=DMNS&cws8&rid=17 Job Description:

The Denver Museum of Nature & Science seeks a Zoology Collections Manager within the Integrative Collections Branch. This position supports the collections and research of the Zoology Branch as it focuses on providing a better understanding of the planet's biodiversity. The Zoology Collections currently holds approximately 1.3 million specimens in nine sub-collections in both vertebrate and invertebrate zoology.Major taxonomic groups include arachnids, insects, birds, marine invertebrates, parasites, and mammals; collections consist of study skins, skeletal material, taxidermy, wet specimens, pinned insects, a large frozen tissue collection, and other zoological preparations that support a diverse array of internal and external research inevolutionary biology, ecology, conservation biology, genetics-genomics-museomics, and other disciplines. This position supports efforts to preserve and protect the collections on a long-term basis, promote awareness of and access to the collections, manage and expand collections, increase scientific output based on the collections, and to help inspire diverse communities' understanding of, and involvement in, the natural world.

Additional information about the DMNS Zoology collections can be found here:https://www.dmns.org/science/zoology/zoology-collections/ About our division:

The world-class collections at DMNS include 4.3 million objects and specimens in Anthropology, Archives, Earth Sciences, Education, Health Sciences, and Zoology; the collections are cared for in the state-of-the art Avenir Collections Center. Collections span seven continents, deep time to the present, with a major focus on the American West. Large portions of the collections are databased and publicly accessible, including access through other portals (e.g., iDigBio, GBIF). The Science Division is supported by 36 staff members, numerous grant-funded positions, and hundreds of volunteers. Work Schedule:5 days/week onsite. Supervises:2, and oversees the work of interns and volunteers.

Essential duties:

- Oversees collections department and ensures professional collections management for all zoology collections, including: knowledge and application of preventive conservation measures. - Facilitating accessions, deaccessions, loans, documentation, registration, and preparation of collections. - Organization and systematic storage of specimens and associated data for ease of access and long-term preservation. - Implementation of IPM, housekeeping, and other essential collections programs. - Works closely with zoology curators and other collections staff to develop and implement collections plans and priorities - Promotes and facilitates internal and external access to and use of collections for purposes of research, education, loan, and exhibit. - Provides administration of and expertise on collections databases and reports, ensuring timely and accurate information. - Supervises professional staff including two assistant collections managers, grant-funded staff, interns, students, and volunteers. - Stays abreast of advances in zoology collections management, trends, issues, and digitization.

Minimum qualifications/Requirements:

- Master's Degree in Museum Studies, Zoology, Biology, or a closely related field required. Zoology collections management experience can be substituted for education. - 5 years' experience managing museum zoology collections required. - 5 years' experience with relational collections databases required. - 3 years' experience supervising staff and/or volunteers required. - Knowledge of zoological classification required. - Experience with state, federal, and international regulations (CITES, Nagoya,etc.) related to collection activities such as permitting, accessions/deaccessions, shipping, and curation standards required.

Ideal candidate will have: - Experience/education in invertebrate and vertebrate zoology. - Experience with and ability to work with diverse communities, including engaging a diverse public through science communication. - Experience creating and implementing digitization plans. - Advanced collections management database experience with ARCTOS and Symbiota, including re-

port writing, barcoding, importing and exporting data to aggregators (e.g., GBIF, SCAN, etc.). - Experience with vertebrate and invertebrate specimen preparation. - Experience managing numerous projects at once, including ability to create and implement both short- and long-term plans. - Experience managing large grant projects, and familiarity with Federal

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ETH Zurich ResAssist MicrobialCommunities

Position for research assistant on microbial communities and transposon-insertion sequencing

Application review begins 8 August 2022

The Microbial Evolutionary Dynamics unit (https://tb.ethz.ch/research/manhart-group.html), led by Dr. Michael Manhart (https://n.ethz.ch/~mimanhar), of the Theoretical Biology Group at ETH Zurich is hiring a research assistant to study the effects of microbial interactions on mutations using random-barcoded transposon insertions. Interactions between microbes, specifically in the form of cross-feeding in which cells exchange chemical nutrients, are believed to be pervasive in microbial communities, such as those in the human body, the soil, and the ocean. However, we poorly understand the effect of these interactions on the evolution of microbial communities, especially at the scale of mutations. The goal of this project is to directly measure how cross-feeding modulates the effect of mutations in a synthetic cross-feeding community.

Description of the position: You will work on one or more of the following tasks:

- Constructing mutant libraries in E. coli strains - Performing competition experiments - Preparing sequencing libraries

You will work collaboratively with your supervisor, Dr. Michael Manhart, and other members of the Theoretical Biology Group.

The workload will be set by mutual agreement with your supervisor (up to 41 hours per week), but if you are currently enrolled as a student, it will be limited to 15 hours per week during the academic term per regulations. The salary and duration of the position will depend on your qualifications and funding availability, although we expect an overall duration of 3-6 months. The start date is flexible, but we prefer 15 September 2022 or soon thereafter.

For candidates interested in longer-term positions, there will be the possibility of transitioning to another position in 2023 when the group moves to the Center for Advanced Biotechnology and Medicine (https://cabm.rutgers.edu/) at Rutgers University (Piscataway, USA).

Qualifications: Applicants should have previous experience in wet-lab microbiology and/or molecular biology.

Application instructions: Please prepare the following documents as a single PDF file:

1. A cover letter containing: - A narrative summary of your education and work history, especially experiences you feel specifically prepared you or motivated you for this position - An explanation of why you are specifically interested in this position and what you hope to gain from it - Any other details that you consider important for evaluating your application - Where you learned about the position (e.g., e-mail from colleague, Twitter, job website, etc.) 2. Your CV, including all education and previous work experience 3. Names and e-mail addresses for two references that know you and your work well

Apply through one the following application portal links:

- Apply here if currently enrolled as a student: https://www.jobs.ethz.ch/job/view/JOPG_ethz_jnNNyc6oxzW6O1LhxU - Apply here if NOT currently enrolled as a student: https://www.jobs.ethz.ch/job/view/JOPG_ethz_oOpBgPZL4faMwBnAqi Do NOT include additional materials not listed here (e.g., transcripts, reference letters, etc.). Please note that we exclusively accept applications submitted through the online application portal we will not consider applications via e-mail.

Application review begins on 8 August 2022 and will continue until the position is filled. Our group values an inclusive culture, and we strongly encourage applications from a diverse range of candidates.

If you have any questions, please contact Dr. Michael Manhart at michael.manhart@env.ethz.ch (no applications).

Manhart Michael <michael.manhart@env.ethz.ch>

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FortHaysStateU ZoologyCollectionsManager

Fort Hays State University

Sternberg Museum

Job Posting Title

Zoology Collections Manager

https://fhsu.wd1.myworkdayjobs.com/en-US/-CAREERS/details/Zoology-Collections-Manager_R-03444 Job Description

Sternberg Museum of Natural History seeks a full-time, 12-month, non-tenure track zoological collections manager to oversee the care and management of its extensive and growing zoological collections including: Herpetology (16,000+ specimens), Mammalogy (45,000+ specimens plus 2 holotypes), Ichthyology (750,000 specimens), Ornithology (4500 specimens), Mussels (5000+) and Entomology (100,000+ insects). Collections consist of fluid-preserved specimens, skins, dry skeletons, histological, and frozen tissues. The collections focus on the Great Plains of the U.S.

Essential Duties:

- Supervise zoology collections access, handling, and care, including overseeing accessions, loans, annual inventories, data entry, and integrated pest management - Initiate, develop, and implement collection improvement grants - Manage collections databases, data aggregators and maintain digital data standards - Supervision of Graduate Curatorial Assistants, students, and volunteers - Work collaboratively with museum Education Director and Exhibits Director on museum programs and exhibits - Maintain and report on annual scientific collection permits - Maintain internal and external partnerships with collaborators and collaborative institutions - Report on annual use of collections including specimen searches, tissue loans and published papers listing FHSM - Other duties as assigned by the Director

In addition to these essential duties, the following are important areas in which the collection manager may participate, assist or take a leading role.

- Teach a course on Collections Management in alternating years as a part of the FHSU museum studies program (this includes additional adjunct pay). - Participate on the university's IACUC committee - Participate on or lead contracted field research at Ft. Leavenworth (10 yr contract) - Collaborate in the care of the museum's 23 acres of nature trails - Care of the 23 species of rattlesnakes on exhibit and consult on care of other live animals at the museum that are under the care of the museum naturalist

Application Process: To apply for this position, please visit https://fhsu.wd1.myworkdayjobs.com/CAREERS. Only electronic applications submitted through the webpage will be accepted.

Required Application Documents:

Qualified candidates should submit a single PDF containing:

- Cover letter including a candidate statement addressing experience, qualifications, and how the applicant is suited to the position - Current CV or resume; - The names and contact information of at least three professional references.

Minimum Qualifications:

- Master's degree in zoology or museum studies with specialty in zoology - Expertise with taxonomy and identification of more than one taxonomic group (mammals, herps, fish, insects) - Field collecting experience - Experience in preparing and conserving specimens, including use of preservation chemicals

Preferred Qualifications

- Familiarity with collection-based databases and web-based applications - Demonstrated skills in public speaking, writing, and interpersonal communication skills - Evidence of effective teaching at the university level - Knowledge of museum collection practices and standards.

If you have questions regarding the position, please contact:

Name: Dr. Reese Barrick

Email: rebarrick@fhsu.edu

–

Lorelei E. Patrick, PhD she/her

Assistant Professor, Department of Biological Sciences Associate Curator of Mammals, Sternberg Museum of Natural History Fort Hays State University Hays, KS

Lorelei Patrick <loreleipatrick@gmail.com>

Frankfurt CommunicatingBiodiversity

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 fi¿½r 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 projectIdentify "unique selling points" of SOSA, and collaborate with other SOSA units to set priorities for content creationIdentify other leaders in same space and approach relevant people or institutions to propose and develop collaborationsDevelop Germany / Western / Global perspectives on engagement with marine content (biodiversity and conservation), and develop strategies on who can / should be reachedUnderstand the current and emerging channels of communication (video, radio, social media, website, apps, telepathy, etc.) for our goals, and plan content development accordinglyBe 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 planningDevelop medium term (5-10 year) plan for SOSA confirmed life cycleDevelop 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, museumFluent 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 fasciation in the general public.An ability to solve problems and make independent decisionsAn 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 communicatorsThe 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 biodiversityExcellent 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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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

JGU Mainz EvolutionBehaviorGenomicsSocialInsects

The Department 10 - Biology - Institute of Organismal and Molecular Evolutionary Biology -

Division of Behavioural Ecology and Social Evolution of the Johannes Gutenberg-University Mainz

is looking for a

Assistant Professor / Lecturer as academic staff member

We are looking for a highly motivated scientist with a PhD in the field of evolutionary biology, behavioural ecology and / or genomics of insects, preferably social insects, to establish an internationally visible research group. The Department of Behavioural Ecology and Social Evolution, headed by Prof. Dr. Susanne Foitzik, is home to four research groups investigating the evolution, behavioural ecology, genomics and chemical ecology of social insects (https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/researchgroups/).

Your tasks: - Establishment and leadership of a competitive research group with a scientific focus on evolutionary biology, behavioural ecology and / or genomics of social insects.

- Research activity characterized by international publications and acquisition of external funding (DFG, EU)

- Cooperation with the existing research groups of the department - Supervision of PhD, Master and Bachelor students

- Participation in university teaching in Bachelor and Master modules

Your profile: In addition to the general requirements according to public services law, applicants must meet the recruitment requirements stipulated in ï¿½ 58 of the Hochschulgesetz of Rhineland-Palatinate:

- A successfully completed university degree - A doctorate in a field relevant to the position - Full-time work experience of at least 2.5 years post-graduation - Doctorate and employment period should not exceed six years - Excellent publication record and experience in obtaining external funding - Scientific knowledge in at least one, better several of the following methods: Biostatistics, bio[1]informatics, behavioural experiments, NextGen sequencing, transcriptomics, genomics, proteomics, microbial analyses - Teaching experience is advantageous

If the legal requirements for civil servants are not (or not yet) met, employment as an academic member of staff (EG 13 TV-L) may be possible.

What we have to offer: - International working environment with scientists from Europe, America and Asia. - Excellent working conditions in the newly established Biozentrum I with “state of the art” genetics, behavior and chemistry laboratories, climate rooms for keeping insects - Possible connection to the Research Training Group GenEvo: Gene Regulation in Evolution (genevo-rtg.de)

- Opportunity for habilitation - JGU Mainz has Core Facilities including Sequencing and High Performance Computer cluster MOGON - Jobticket, optional for the entire Rhine-Main area - Extensive human resources development offer - Flexible working time Arrangements

The position is remunerated according to salary grade A13 LBesG and to be filled on January 1st , 2023 or later.

This is a permanent civil servant position limited first to three years with the option to extend the contract for another three years.

The position serves the purpose of academic qualification and the acquisition of additional academic achievements.

JGU is diverse and welcomes qualified applications from people with varied backgrounds.

We aim to increase the number of women in the field of research and teaching and therefore encourage female researchers to apply.

Candidates with severe disabilities and appropriate qualifications will be given priority.

Please send your complete application as one pdf file (stating the identification nr. 03022-10-wiss-ml)

by August 22nd, 2022 at the latest via Email to foitzik@uni-mainz.de. For questions and further information please contact Prof. Dr. Susanne Foitzik, Tel: +49 6131/39-27840 or E-Mail: foitzik@uni-mainz.de.

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hï¿½sch Weg 15 D-

55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

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

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LIB Bonn CoordinatorBiodiversityGenomics

Dear EvolDir Community,

Vacancy for the coordination of sample and metadata collection for biodiversity genomics (f/m/d) at LIB in Bonn for 40 months (TV-L E13) as full time position

Project Background

At the Leibniz Institute for the Analysis of Biodiversity Change (LIB), Museum Koenig Bonn, Germany, we seek a scientific coordinator in the EU funded project “Biodiversity Genomics Europe (BGE)” at the Center for Molecular Biodiversity Research for a duration of 40 months (salary according to German salary scale for the public sector TV-L 13, full time 100%).

BGE is a joint project of ERGA (European Reference Genome Atlas) and BIOSCAN Europe funded by the EU commission. The project has the overarching aim of accelerating the use of genomic science to enhance understanding of biodiversity, monitor biodiversity change, and guide interventions to address its decline. For questions related to the project and position please contact a.boehne@leibniz-lib.de.

Job description

We are seeking a coordinator for the collection of high-quality samples for whole-genome sequencing and corresponding metadata within the BGE project. Tasks will include coordination, guidance, and oversight of sample acquisition, storage, and transfer for the ERGA branch in BGE under deployment and extension of reproducible standards. This position will facilitate metadata exchange between local data/institutional database and a central repository. Further tasks will be the involvement in species prioritization for genome sequencing and identification of taxonomic experts for target groups and extensive communication and exchange with other project partners.

Start date: 01.09.2022

Your profile

The successful candidate should hold a masters/Phd degree in a relevant area such as biology, genomics, data management or a related field and have a genuine interest in biodiversity genomics. Previous experience with project coordination is expected. Experience with (meta)data management, database systems, fieldwork coordination, museum collections and international consortia are highly welcome. The successful applicant is a creative, open-minded individual with very good communication skills in English.

Required documents

Cover letter, CV, transcripts of academic records, and contact information for 2 potential referees as a single PDF.

The LIB is a family-friendly institution and an equal opportunity employer. We are committed to increasing the proportion of women in academia. Consequently, we actively encourage applications by women. We also welcome applications from candidates with severe disabilities. Disabled candidates with equivalent qualifications will be preferentially considered.

Please send your application by 03.08.2022 exclusively digitally via our applicant portal www.leibniz-lib.de/-karriere . For organizational reasons, only online applications will be accepted. You can find more information about our facility on the Internet at: www.leibniz-lib.de . Stiftung Leibniz-Institut zur Analyse des Biodiversitï¿½tswandels Postanschrift: Adenauerallee 127, 53113 Bonn, Germany

Stiftung des ï¿½ffentlichen Rechts; Generaldirektion: Prof. Dr. Bernhard Misof (Generaldirektor), Adrian Grï¿½ter (Kaufm. Geschï¿½ftsfï¿½hrer) Sitz der Stiftung: Adenauerallee 160 in Bonn Vorsitzender des Stiftungsrates: Dr. Michael Wappelhorst

Bï¿½hne Astrid <A.Boehne@leibniz-lib.de>

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LMU Munich ResAssist ButterflyEvolution

RA position (deadline 31st July 2022): We are looking for a motivated student research assistant to join our project studying neuroanatomy, behaviour and speciation in tropical Heliconius butterflies. The

RA will join Richard Merrill's research group at LMU Munich (https://www.evol.bio.lmu.de/research/-index.html), and will work closely with our collaborators at the Universidad Regional Amazónica Ikiam (Ecuador), the Universidad del Rosario (Colombia), and the University of Bristol (UK).

The position is for 2.5 years, following successful assessments at ~4 and ~10 months. The applicant will be primarily based at LMU in Munich, after a period of 3 to 6 months working in our insectaries in Ecuador, and a possible shorter visit to Bristol. As such, applicants must be prepared to spend considerable time in the tropics, be self-motivated and work well as part of a team. In addition to butterfly breeding and behavioural experiments in the tropics, the work would mostly involve antibody staining, confocal imaging and segmentation of brains. Experience with these techniques would be welcome, but is not required. More important is self motivation, an interest in the evolution of brains and behaviour, good communication and English skills, and the ability to problem solve.

The position would suit someone interested in the evolution of brains and behaviour, with a relevent MSc or bachelors degree, who is considering pursuing a PhD. The successful applicant will work closely with Postdocs in the lab and will contribute to ongoing experiments, but there is scope for independent projects. Depending on available funding, and the right candidate, the position could be extended to allow a PhD project in the future.

LMU is recognized among Europe's premier academic and research institutions, being consistently ranked among the top Universities worldwide. Within the Division of Evolutionary Biology (http://-www.evol.bio.lmu.de), the researcher will be part of vibrant international communities of scientists. In addition, the researcher will join a collaborative and driven community of Heliconius biologists. The working language of the lab and the Division of Evolutionary Biology is English.

The position is funded by an ERC starting grant (The genetic and neural basis of reproductive isolation) awarded to Richard Merrill. The expected salary will be equivalent to that paid at the level of a PhD student (mostly likely EV13 65%, approx. 1750 euro after tax and contributions). The successful applicant could start at the earliest from September/October 2022, but this start date could be extended for the right candidate (and might depend on obtaining visas). The position is open to EU and international applicants, assuming they can obtain the necessary work documents.

Further information about the lab can be found https://-/www.evol.bio.lmu.de/research/merrill/index.html and links within. For relevant publications see below. Informal questions should be directed to Richard Merrill (merrill@bio.lmu.de), Shane Wright (dswright@biologie.uni-muenchen.de) or Lucie Queste (queste@biologie.uni-muenchen.de).

Applications, made up of a *single pdf* including: i) A short letter of motivation, ii) A current CV (including grades) and iii) the names and contact details of two referees, should be sent to Richard Merrill (merrill@bio.lmu.de) with the subject header "HELICONIUS RA" by 31st July 2022. Interviews will be held most likely over zoom in the following 2 weeks.

Relevant publications: Montgomery, S.H., Rossi, M., McMillan, O. & Merrill, R.M. (2021) Neural divergence and hybrid disruption between ecologically isolated Heliconius butterflies. PNAS 116: e2015102118 LINK < https://www.pnas.org/doi/10.1073/pnas.2015102118 >

Rossi, M., Hausmann, A.E., Thurman, T., Montgomery, S.H., Papa, R., Jiggins, R.D., McMillan, O. & Merrill, R.M.(2020) Visual mate preference evolution during butterfly speciation is linked to neural processing genes. Nature Communications 11: 4763. LINK < https://-www.nature.com/articles/s41467-020-18609-z >

Montgomery, S.H. & Merrill, R.M. (2017) Divergence in brain composition during the early stages of ecological specialisation in Heliconius butterflies. J Evol Biol 30: 571-582 LINK < https://onlinelibrary.wiley.com/doi/-full/10.1111/jeb.13027 >

Merrill, R.M., Dasmahapatra, K., Davey, J., Dell'Aglio, D., Hanly J.J, Huber B., Jiggins C.D., Joron, M., Kozak K., Llaurens V., Martin S.H., Montgomery S.H., Morris, J., Nadeau N.J., Pinharanda

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LundU Sweden ProjectAssistantEvolution

Project Assistant in Evolutionary Biology (permanent position)

Subject description The research group of Dr. Feiner and Prof. Uller (http://feiner-uller-group.se/) at the

Department of Biology is recruiting a project assistant. The group conducts research across a wide range of topics in evolutionary biology, including evolutionary and conservation genomics, developmental genetics, evolutionary developmental biology (evo-devo), and evolutionary ecology.

Work duties The project assistant is expected to provide general and specific support for projects in the research group. Specific tasks include to: - Carry out basic molecular biology lab work (DNA extraction, library preparation for NGS, PCR, etc.). - Manage sample collections and organize digital data management. - Carry out aspects of data collection in the field or laboratory. - Contribute to animal husbandry. - Participate in basic bioinformatic data analyses (e.g., SNP calling) using existing pipelines. - Support administration of the research group. - Participate in lab management and maintenance.

Qualifications Appointment to this project assistant position requires that the applicant has a MSc or PhD in a relevant field of biology, such as evolutionary biology. The profile of the applicant is expected to match the work duties outlined above.

Specific requirements: - Excellent organizational skills. - Excellent practical skills in molecular and/or developmental biology. - A minimum of basic experience with bioinformatic analyses, including with NGS data. - Very good oral and written proficiency in English. - Ability to work both independently and in a team. - Problem-solving attitude, excellent communication skills, and an eagerness to facilitate the research of others. - Basic experience with animal care.

Other merits: - Swedish language skills are advantageous - Research experience in a field close to the research of the group is advantageous - Prior experience of working with lizards is advantageous

All qualifications, merits and skills should be supported by documentation. We will place great emphasis on personal suitability. Consideration will also be given to good collaborative skills, drive and independence, and how the applicant's experience and skills complement and strengthen research support within the unit/department, as well as contribute to its future development.

Terms of employment This is a full-time, permanent employment. A probation period of 6 months will be applicable. Informal inquiries before applying are welcome (nathalie.feiner@biol.lu.se).

Instructions on how to apply Applications shall be written in English and be compiled into a PDF-file containing: - Motivation letter describing past experience with research and research support, and statement of interest (max. 2 pages). - CV, including a list of publications. - Names, relation to and contact information of two professional references. - Copy of the MSc or doctoral degree certificate, and other certificates/grades that ought to be considered.

More information an how to apply can be found here: https://lu.varbi.com/en/what:job/jobID:528137/-type:job/where:4/apply:1 Deadline for application: 01 Sep 2022

Nathalie Feiner nathalie.feiner@biol.lu.se

Nathalie Feiner <nathalie.feiner@biol.lu.se>

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NatlTaiwanU Biodiversity

The Masters Program in Biodiversity (MPB) at National Taiwan University is an English-taught interdisciplinary program which is newly approved by the Ministry of Education in Taiwan in 2020. This program focuses on Biodiversity Science, as well as Biodiversity Conservation and Sustainability. It aims to cultivate global talents with competencies in biodiversity management. If it's possible, please kindly promote our job vacancy on your website, below is the related information.

We invite applicants for one tenure track Faculty Position (Assistant Professor or above), 4 credits of General Courses or Liberal Education Courses for undergraduate students and Professional Courses for graduate students must be offered each semester, and also need to assist the program with administrative affairs, starting from February 1, 2023. Applicants with postdoctoral experiences are preferred, and the research fields are Biodiversity (Ecology, Evolutionary Biology, Conservation Biology, Ecosystem Service Evaluation), and/or Human Dimension in Ecology. A doctoral degree and capability of teaching in English are required, and priority will be given to the candidate who can offer one to two of the suggested courses as below.

"Field Work in Ecology: Practicalities and Data Analysis", "Linear and Generalised Linear Modelling in R", "Scientific Communication", "Experimental Design in Ecology", "Ecological Diversity", "Bio-cultural Diversity, Sustainability Development", "Ecosystem Service Evaluation", "Human Dimension in Biodiversity", "Ecosystem Service and Sustainability", "Economic Anal-

ysis in Biodiversity", "Ecological Economy", Conservation Biology, "Ecological Application in Geographic Information System (GIS), and / or Biostatistics".

Documents required for application: 1. Curriculum Vitae including nationality, date of birth, education background, summary of research field, working experience, the publication list from past seven years (please provide individual pdf files, published after February 1, 2016). 2. A personal statement indicating a commensurate position (Assistant, Associate, or Full Professor) to be applied and the important contribution of one designated representative paper. The representative paper should be published in respected international journals(SSCI, SCIE) after February 1, 2018. Please also include statements of past teaching and research experiences. 3. Research plans 4. Teaching plans, please provide syllabi for at least 3 courses. 5. Certificate of a doctoral degree 6. Transcripts from undergraduate and graduate courses (for those applying to the Assistant Professor position only) 7. Three letters of recommendation (sent by the referees directly through email to: ntumpb@ntu.edu.tw)

Please send all the required documents (as PDFs) to the following email address: ntumpb@ntu.edu.tw (Subject: NTU Faculty Position _MPB_Applicant name). The deadline for submitting all documents is August 31, 2022 (GMT+8). Website of MPB: https://mpb.ntu.edu.tw Thank you for your time and help!

Sincerely, Megan

National Taiwan University Master's Program in Biodiversity(MPB) https://mpb.ntu.edu.tw/ Email ntumpb@ntu.edu.tw Tel +886-2-3366-5712 # 17 Fax +886-2-3366-9699 7F, Zonghe Lecture Building, No.1, Sec.4 Roosevelt Rd., Taipei 10617, Taiwan (10617)

Master's Program in Biodiversity <ntumpb@ntu.edu.tw>

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NorthCarolinaStateU Tech EvolutionRecombination

The Heil lab at NC State University in Raleigh, NC is seeking a research technician to join our group. Our lab uses genetics, genomics, and experimental evolution in the budding yeast *Saccharomyces cerevisiae* and its relatives to understand evolutionary processes. Our current interests include domestication, hybridization, and the evolution of meiosis and recombination rate.

This project explores how the environment, and temperature, in particular, impact genome evolution, meiosis, and recombination rate variation. The successful candidate would be involved in yeast strain construction, flow cytometry, laboratory evolution, quantifying fitness, and the generation of whole-genome sequencing data. Other duties would include working with and mentoring other lab members, and lab duties like media preparation, autoclave, etc.

Preferred qualifications: An undergraduate degree or equivalent experience. Experience with yeast or bacteria cloning and culturing, flow cytometry, and/or experimental evolution a plus!

Please see here for job posting and other details: https://jobs.ncsu.edu/postings/166835 . Applications will be accepted until the position is filled. Please email Caiti Smukowski Heil at cheil@ncsu.edu with questions. Check out our lab website (www.heillab.com) for more information about our work.

Caiti Smukowski Heil, PhD Assistant Professor | Biological Sciences North Carolina State University

Office: 919-515-2709 3556 Thomas Hall Raleigh, NC 27695 www.heillab.com she/her/hers

Caiti Heil <cheil@ncsu.edu>

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RiceU Technician BehaviorEvolution

The Saltz lab at Rice University seeks a full-time lab technician to start immediately. The technician will be responsible for managing a series of large-scale behavior genetics experiments using fruit flies. Our research focuses on understanding the evolutionary genetics of animal behavior through the lens of individual variation in environments.

This hourly position pays approximately $34K per year and includes health insurance and other benefits. The technician would join an inclusive and vibrant intellectual community at Rice University, and a collaborative lab environment. The technician would be expected to show leadership in upholding our inclusive lab culture and promoting physical safety in the lab.

The ideal candidate will be passionate about science and

have exceptional organizational and time-management skills, and attention to detail. This is a great position for a recent college graduate interested in obtaining research experience before moving on to graduate school or something else. For more about our research, team, and lab values see saltzlab.com.

To submit an application, go to https://emdz.fa.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/1506 .In your cover letter, please include short descriptions of why you are interested in the position and any relevant previous experience (scientific or otherwise). Inquiries can be directed to me at Julia.b.saltz@rice.edu.

thanks, Julia

Julia B. Saltz

Associate Professor Biosciences atRice University lab website:Saltzlab.com

twitter: @julia_saltz pronouns: she/her

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

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RockefellerU ResLabTech VertebrateGenomics

We are hiring! If you love de-novo genome sequencing and comparative genomics of non-model organisms and have some good molecular biology skills (NGS is a plus), apply to join our exciting team (vertebrategenomelab.org).

Job ad: https://recruit.rockefeller.edu/OA_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&p_svid=27966&p_spid=1144152 Don't hesitate to email us if you would like more information: vgl@rockefeller.edu

ofedrigo@mail.rockefeller.edu

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RoslinInst UEdinburgh QuantGenomics

The Roslin Institute is expanding in many areas of research, and as part of that strategic vision we are looking to appoint a Full Professor of Quantitative Genomics. We welcome candidates working in the broad area of quantitative genetics, quantitative genomics, and animal breeding to help us make transformative changes in livestock research and address major societal challenges, including food security and climate change.

We are looking for a team player, with a strong record of sustained publication of international quality, and the drive and potential to make an outstanding contribution to this research area. This is an opportunity to participate in the activities and intellectual life of the University of Edinburgh and The Roslin Institute, as well as contributing to delivering the broader research vision of the Director and addressing major strategic themes from BBSRC (https://www.ukri.org/councils/bbsrc/). Industry-related experience and the ability to influence policy will be a bonus. Finally, the post brings the opportunity to form and lead the Data Driven Innovation (https://ddi.ac.uk) funded Centre for Breeding to drive the next wave of innovations in collaboration with the wider University (precision phenotyping, machine learning, satellite imaging, genome editing, etc.) and extensive industry contacts.

Prospective candidates wishing to discuss the appointment should contact Professor Bruce Whitelaw, Director of the Roslin Institute (Bruce.Whitelaw@roslin.ed.ac.uk), Professor Albert Tenesa (Albert.Tenesa@ed.ac.uk), Professor Andrea Doeschl-Wilson (Andrea.Wilson@roslin.ed.ac.uk), or Dr Gregor Gorjanc (Gregor.Gorjanc@roslin.ed.ac.uk). If you are at WCGALP, feel free to approach Andrea or Gregor for a chat.

The deadline is 16.00 BST on the 1st of August 2022.

The full description of the post can be found here: https://edin.ac/3R2reox The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh DhÃ'n ÃÂideann, clÃ—raichte an Alba, Ã—ireamh clÃ—raidh SC005336.

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

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ing@mcmaster.ca)

SacredHeartU 1yr EvolutionaryBiology

Job Description: The Sacred Heart University Department of Biology invites applications from qualified candidates for an appointment to a one year visiting position in the field of Biology at the rank of Instructor or Lecturer. Applicants are expected to demonstrate excellence in undergraduate teaching and a strong appreciation for the mission of the University and its student-centered focus. We are seeking a candidate with broad expertise in biology. Preference will be given to those with experience teaching evolution, genetics, microbiology, or related fields. In addition to teaching specialized courses in our Biology program course offerings, the successful applicant may also teach in the introductory course sequence for Biology majors.

Requirements: - A PhD in Biology, Microbiology, Genetics, Cell/Molecular Biology or another relevant area in the biological sciences is preferred - Individuals that are soon finishing their PhD or with a Master's will also be considered - Teaching experience is also preferred.

The successful candidate will actively promote a collegial environment and consciously apply our mission and values to create a culture of inclusion and belonging; a safe space where all may thrive and succeed. They will also participate in developmental activities to increase understanding and awareness of issues related to diversity, equity and inclusion and then apply that understanding to guide their approach to all aspects of their job and the community as a whole. They will demonstrate that we are "Stronger Together" as described in the Office for Diversity & Inclusion's Mission and Vision statements.

About Sacred Heart University: As the second-largest independent Catholic university in New England, and one of the fastest-growing in the U.S., Sacred Heart University is a national leader in shaping higher education for the 21st century. SHU offers nearly 90 undergraduate, graduate, doctoral and certificate programs on its Fairfield, Conn., campus. Sacred Heart also has satellites in Connecticut, Luxembourg and Ireland and offers online programs. More than 9,000 students attend the University's nine colleges and schools: Arts & Sciences; Communication, Media & the Arts; Social Work; Computer Science & Engineering; Health Professions; the Isabelle Farrington College of Education and Human Development; the Jack Welch College of Business & Technology; the Dr. Susan L. Davis, R.N., & Richard J. Henley College of Nursing; and St. Vincent's College. Sacred Heart stands out from other Catholic institutions as it was established and led by laity. The contemporary Catholic university is rooted in the rich Catholic intellectual tradition and the liberal arts, and at the same time cultivates students to be forward thinkers who enact change-in their own lives, professions and in their communities. The Princeton Review includes SHU in its Best 387 Colleges-2022 Edition, "Best Northeastern" and Best Business Schools-2021 Edition. Sacred Heart is home to the award-winning, NPR-affiliated radio station, WSHU, a Division I athletics program and an impressive performing arts program that includes choir, band, dance and theatre.

To Apply: https://sacredheart.interviewexchange.com/-candapply.jsp?JOBID=148891#pageTop Full Ad: https://sacredheart.interviewexchange.com/-jobofferdetails.jsp;jsessionid=-8764A7AD5FF7FFBCD56832C88371A36E?JOBID=148891&CNTRNO=1&TSTMP=1655225683529&fbclid=-IwAR1uHORv2OHQxXehySPn_m99P_arR25MJrkKODiCsO7Eon17a6U

"Woronik, Prof. Alyssa" <woronika@sacredheart.edu>

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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 processRegularly 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 unitSchedule, 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 reportsProvide 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 assessmentsContribute to developments of the pilots in the field of Natural Language Processing and Artificial IntelligencePrepare webinars, and e-learning materials focused on data management and the activities of the task force on knowledge and dataCoordinate and provide technical support to the implementation of case studies on Natural Language Processing analysis of literary textsWork 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 productsTravel nationally and overseas to represent the technical support unit for knowledge and data, or to run technical workshops for the assessment expertsContribute 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 servicesExperience in Open Source programmingExperience in geospatial data handling and remote sensing productsProficient in written and spoken English and experience in the scientific report writing, reviewing and editingAbility to plan, organize and execute complex problems, and to work precisely and effectively under time constraintsOutstanding social skills and capability to interact with and work in the international science community and in an international teamExperience in web service development, programming web applications, and interoperable workflows would be an advantage

The offer

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SouthCarolina WildlifeBiologist

Wildlife Biologist II (Genetics)

Description

The Marine Resources Division for South Carolina Dept. of Natural Resources is hiring a permanent Wildlife Biologist II to join the population genetics team in Charleston, South Carolina. The team conducts population genetic and molecular tool research on marine and freshwater fishes, with direct applications to stock enhancement, fisheries management and conservation.

The population genetics team is housed in the state-of-the-art Hollings Marine Lab and has close collaborations with NOAA, NIST and the College of Charleston. Opportunities to teach (with a Master's degree) and participate in outreach activities are also possible, if interested.

Work Responsibilities include (but not limited to):

- Data collection in laboratory based molecular/genetic work (DNA extraction, PCR, qPCR, eDNA, CEQ, NGS analysis) and in the field (marine and terrestrial). - Data analyses and write-up in preparation for technical reports, presentations and scientific publications. - Literature review and synthesis

Minimum Requirements:

- Master's degree in biology, chemistry or related technical area field; or

- Bachelor's degree in biology, chemistry, wildlife management or related technical area and two (2) years of experience relevant to the job.

Preferred Qualifications:

-Master's degree in Biology preferred with molecular/genetics and field experience.

-Ability to work both independently and collaboratively.

-Strong quantitative, organizational, computer and writing and interpersonal skills.

-Publication record and experience with microsatellites and automated sequencing systems preferred.

-Knowledge of marine and freshwater fisheries of the southeastern Gulf US.

Instructions on how to apply can be found here:

https://www.governmentjobs.com/careers/sc/jobs/-3522243/wildlife-biologist-ii Deadline for application: 07/27/2022

Finally, Charleston is a beautiful place to live in, with many cultural and outdoorsy activities. We are committed to building and supporting a diverse and inclusive work environment. If you have any further questions about the position, please email Lenny Yong (YongL@dnr.sc.gov) or Katherine Silliman (SillimanK@dnr.sc.gov).

Lengxob Yong <YongL@dnr.sc.gov>

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StMarysC Maryland OrganismalBiology

Evolutionary Biologists are encouraged to apply.

The Department of Biology at St. Mary's College of Maryland invites applications for a tenure-track *Assistant Professor (Ross Fellow) position in Organismal Biology* beginning August 2023. We seek a biologist with demonstrated potential for excellence in undergraduate education and mentorship. Teaching responsibilities include participating in biology core courses as needed (Contemporary Biosciences, Principles of Biology I, Principles of Biology II, Genetics, Ecology and Evolution) and upper division electives in their specialty.

Ph.D. required; postdoctoral training and/or teaching experience preferred. We seek candidates with a commitment to excellence in teaching as well as maintaining an active research program that has the potential to involve undergraduates. Employment will be contingent upon successful completion of a criminal background check and proof of COVID-19 vaccination, medical and religious exemptions will be considered.

With the support of the Office of Inclusive Diversity, Equity, Access, and Accountability (IDEA2), *St. Mary's College has designated this position as part of a two-year cluster hire initiative designed to increase the diversity of SMCM faculty.* Programs participating in this cluster hire include Anthropology, Biology, Environmental Studies, History, Mathematics, and Psychology. The College seeks to build and support a network of committed scholars whose pedagogical practice– across their diverse fields of specialization– improves the educational experience of underrepresented students. Candidates who demonstrate commitment to and past experience supporting BIPOC, first generation, and low-income students will be given preference. St. Mary's College is particularly interested in candidates whose teaching is culturally responsive, and grounded in strategies that both increase student belonging and reduce equity gaps in student performance. New faculty in this cluster hire cohort will be supported by research funds up to $5000 in the first two years, paid professional development opportunities, individualized strategic mentoring, campus and community onboarding, and a dedicated steering committee to oversee the long-term success of the initiative and its participants.

Non-sectarian since its founding, St. Mary's College of Maryland is a public Carnegie Baccalaureate, Arts and Sciences institution which has been designated as Maryland's public honors college. We are located in St. Mary's City, 70 miles southeast of Washington, D.C. With selective admissions policies, academically talented students, and a rigorous curriculum, we offer a small college experience similar to that found at exceptional private colleges. St. Mary's faculty benefit from a comprehensive program of support for scholarship, research, travel, and curriculum development, including course releases for pre-tenure faculty and leaves for tenured faculty. The quality of life is enhanced by the recreational opportunities of the Chesapeake region and by our proximity to Washington, D.C. and Baltimore.

St. Mary's College (www.smcm.edu) embodies diversity and inclusion in its mission. We create an environment that recognizes the value of individual and group differences, and we encourage inquiries from applicants who will contribute to our cultural and ethnic diversity. Application materials should include a cover letter in which the candidate describes how their teaching at the College will contribute to a culture of inclusion and campus diversity, curriculum vitae (including e-mail address), statement of teaching philosophy, statement of research interests, and evidence of teaching effectiveness (if available). Applicants should also arrange for the submission of three confidential letters of recommendation. Applicants can request confidential letters through their Interfolio Dossier account, which may be uploaded for free by the letter writer directly to our Interfolio-hosted account for committee review. Applications are being accepted online at: < https://apply.interfolio.com/109012 >. Questions may be directed to Dr. Kevin Emerson.

Review of applications will begin October 1, 2022 and continue until the position is filled. St. Mary's College of Maryland is an affirmative action/equal opportunity employer.

Visit our website: www.smcm.edu/hr Employment will be contingent upon successful completion of a criminal background check.

St. Mary's College of Maryland is an affirmative action/equal opportunity employer.

Kevin J Emerson, PhD Associate Professor of Biology Department Chair Biology Department St. Mary's College of Maryland 18952 E. Fisher Rd St. Mary's City, MD 20686-3001 kjemerson@smcm.edu http://-faculty.smcm.edu/kjemerson Office: 240 - 895 - 2123, Schaefer Hall 231

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Texas AMU HeadConservation

Professor and Department Head, Department of Ecology and Conservation Biology Texas A&M University

Applications are invited for the position of Professor and Department Head of the newly formed Department of Ecology and Conservation Biology at Texas A&M University. The Professor and Head will serve as the chief administrative officer for the Department, reporting to the Vice Chancellor and Dean of the College of Agriculture and Life Sciences. The Head will provide visionary leadership for numerous departmental initiatives including undergraduate and graduate education; knowledge creation through extramurally funded research; a diverse, equitable and inclusive climate; synergistic relationships with diverse stakeholder groups; and facilitate communication of science-based findings to inform policy. A commitment to working cooperatively with university administration, multidisciplinary and multicultural scholars and the general public is essential. A record of success in the development of funding and program support is expected.

Candidates must have an earned doctorate in ecological sciences or a closely related discipline and possess a record of academic accomplishment commensurate with the rank of full professor. Primary qualifications include an interdisciplinary vision, an internationally recognized research program, demonstrated commitment to inclusive undergraduate and graduate education, and experience in academic administration. Candidates with active research programs and interest in continuing active scholarship at Texas A&M are particularly encouraged to apply.

The Department has 36 faculty (https://eccb.tamu.edu), offers a B.Sc. degree in Ecology and Conservation Biology that contains four tracks - Ecology and Conservation Biology, Vertebrate Zoology, Forestry, and Ecoinformatics - and has a large graduate student program. The Department occupies a new building and maintains the Biodiversity Research and Teaching Collections (https:/-/brtc.tamu.edu/) and S.M. Tracy Herbarium, which are among the top 10 university-based biodiversity collections in the USA. Research programs in the department address fundamental questions in ecological science that

span from genes to ecosystems to produce knowledge that is immediately applicable to pressing 21st century challenges, including climate change, biodiversity loss, ecological restoration, and integrative approaches to conservation. The Department is engaged in the campus-wide interdisciplinary programs of Ecology and Evolutionary Biology (https://eeb.tamu.edu/), Genetics (https://genetics.tamu.edu/), and Applied Biodiversity Science (https://biodiversity.tamu.edu/).

Texas A&M is ranked 4th among public universities, has a student population of 67,000 from all 50 states and 124 countries, and is a top 20 research enterprise. Texas A&M is supported by a $13.5-billion-dollar endowment and is a Land, Sea, and Space Grant university. College Station/Bryan has 180,000 permanent residents, is consistently ranked among the best places to live in the country, has a low cost of living, and ready access to the metropolitan centers of Austin and Houston.

Applicants should submit the following: 1) a cover letter; 2) a detailed curriculum vitae; 3) a statement of vision for the Department; 4) a research statement; 5) a statement on Diversity, Equity, and Inclusion; 6) a statement of administrative philosophy, and 7) contact information for three to five references.

Applications are to be submitted via Interfolio (apply.interfolio.com/91184). Questions can be addressed to the Advisory Search Committee Chair, Dr. Phillip Kaufman (phillip.kaufman@ag.tamu.edu). Review of applications will begin August 22, 2022 and continue until the position is filled.

Texas A&M University is committed to enriching the learning and working environment for all visitors, students, faculty, and staff by promoting a culture that embraces inclusion, diversity, equity, and accountability. Diverse perspectives, talents, and identities are vital to accomplishing our mission and living our core values. Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

Mariana Mateos <mmateos@tamu.edu>

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TexasAMU HeadDeptEcolConservation

An evolutionary biologist would be most welcome in this position. Daniel

Professor and Department Head, Department of Ecology and Conservation Biology, Texas A&M University

Applications are invited for the position of Professor and Department Head of the newly formed Department of Ecology and Conservation Biology at Texas A&M University. The Professor and Head will serve as the chief administrative officer for the Department, reporting to the Vice Chancellor and Dean of the College of Agriculture and Life Sciences. The Head will provide visionary leadership for numerous departmental initiatives including undergraduate and graduate education; knowledge creation through extramurally funded research; a diverse, equitable and inclusive climate; synergistic relationships with diverse stakeholder groups; and facilitate communication of science-based findings to inform policy. A commitment to working cooperatively with university administration, multidisciplinary and multicultural scholars and the general public is essential. A record of success in the development of funding and program support is expected. Candidates must have an earned doctorate in ecological sciences or a closely related discipline and possess a record of academic accomplishment commensurate with the rank of full professor. Primary qualifications include an interdisciplinary vision, an internationally recognized research program, demonstrated commitment to inclusive undergraduate and graduate education, and experience in academic administration. Candidates with active research programs and interest in continuing active scholarship at Texas A&M are particularly encouraged to apply.

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Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

“Spalink, Daniel” <dspalink@exchange.tamu.edu>

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UArkansas ResAssist NeuroEvoDevo

The Nakanishi lab at the Department of Biological Sciences, University of Arkansas (https://-wordpressua.uark.edu/nakanishi-lab/), seeks a Research Associate to assist in studying cnidarian neural development and evolution. The laboratory’s research uses the sea anemone Nematostella vectensis and the moon jellyfish Aurelia sp.1 as cnidarian experimental models. The Research Associate will be responsible for feeding, breeding and maintaining wildtype and transgenic Nematostella vectensis and Aurelia sp.1 at the aquarium facility. In addition, the Research Associate will provide technical support for research activities in the laboratory, which may involve nucleic acid extraction, PCR, cloning, sequencing, immunohistochemistry, in situ hybridization, microinjection, microdissection, transgenesis, genome editing via CRISPR/Cas9, and confocal microscopy. This person will facilitate research in the laboratory by ordering and maintaining lab equipment and supplies, ensuring EH&S compliance in the laboratory.

This is a one-year appointment, renewable based on the need for the position, availability of funding, and continued satisfactory level of performance in the role.

Regular, reliable, and non-disruptive attendance is an essential job duty, as is the ability to create and maintain collegial, harmonious working relationships with others.

Minimum Requirements:

- A Bachelor’s or Master’s degree in biology or related field conferred by the start of employment

- Excellent written and oral communication skills

- Demonstrated familiarity with basic molecular biology techniques

Preferred Requirements:

- Experience with cnidarians or other marine invertebrates

Salary is commensurate with education and experience.

To be considered for this position, please send a CV, a cover letter/letter of application, and a list of three professional references (name, title, email address, and contact number) to Nagayasu Nakanishi, Assistant Pro-

fessor, at nnakanis@uark.edu.

Nagayasu Nakanishi, Ph.D Assistant Professor Department of Biological Sciences University of Arkansas Fayetteville, AR 72701 479-575-2031 (office) 479-575-7393 (lab) nnakanis@uark.edu https://-wordpressua.uark.edu/nakanishi-lab/ Nagayasu Nakanishi <nnakanis@uark.edu>

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UBalearicIslands Five Biodiversity

Five positions (2.5-year positions with possibilities of extension) are available at the new Balearic Centre for Biodiversity of the University of the Balearic Islands. The Balearic Centre for Biodiversity will be devoted to: 1) the generation, management and maintenance of reference natural history collections, 2) the implementation of thegenomic laboratory; and 3) the generation, maintenance and management of geophysical, environmental, genetic and genomic metadata. The data stored in this Centre provides detailed information about biodiversity on a regional scale and will make it accessible to the scientific, political, administrative, industrial, social and educational communities.

Among the activities promoted at the Centre, training in biosystematics for the scientific community will be reinforced (understood as the integrative discipline that studies the diversity of life, and citizen science activities). The establishment of synergies and strategic collaborations with agencies at regional, national and international levels will also be promoted. We expect that the successful candidates will contribute to the establishment and development of the Centre as a reference in biodiversity studies, offering multidisciplinary services to the scientific community at regional and national levels and being a solid partner in international initiatives.

Female candidates are especially encouraged to apply. The successful candidate must demonstrate mastery of English and Spanish as working languages. If an appointee is not fluent in one of them, he/she will be expected to learn it within two years, to be able to participate in all functions that the position may involve.

We offer 5 positions: 1) PROJECT MANAGER, 2) GENOMIC LAB MANAGER, 3) POSTDOC IN BIOINFORMATICS, 4) DATA SCIENTIST/MANAGER, and 5)COLLECTIONS AND BIODIVERSITY AND SYSTEMATICS TRAINING MANAGER. A detailed information about work description, qualification requirements and competences, and salaries are detailed below.

HOW TO APPLY

Please send expressions of interest to Maria Capa (centre.biodiversitat@uib.es) along with a statement of motivation and a summary of scientific work and research interests, addressing the qualification requirements in the job description; max. 2 pages. Please clearly indicate the name of the job or jobs of interest.

The formal application will be announced on the 15th September 2022 through the UIB website https://-snss.uib.cat/seccions/cont/Convocatories-vigents/. You will be required to include a CV with a complete list of education, positions, teaching experience, administrative experience, project acquisition and coordination experience, other qualifying activities and a complete list of publications. A Selection Committee will only evaluate candidates who formally registered the application (expression of interests is not considered a formal application). Do not hesitate to contact centre.biodiversitat@uib.es if you need help with this process.

A short list of candidates will be interviewed. We may also request two reference persons (name, relationship to candidate, e-mail, and phone number). All documents must be in English, Spanish or Catalan.

RELEVANT DATES

Official application in public call 15th September 2022 - through the UIB website https://snss.uib.cat/seccions/-cont/Convocatories-vigents/ TARGET START DATE

15 November 2022

FULL JOBS DESCRPTION

Positions available at the new Centre for Biodiversity, UIB

Five positions (2.5-year positions with possibilities of extension) are available at the new Balearic Centre for Biodiversity of the University of the Balearic Islands. This is a new initiative funded by the National and Balearic Governments and expected to start operations next fall. The Balearic Centre for Biodiversity, conceived as a scientific- technical support service for UIB research groups, research institutions, government managers, and the private sector, will generate biodiversity knowledge, will be responsible of the curation of reference collections and data and will allow to establish management tools and formulate strategies for the preservation of biodiversity and ecosystem services. The Balearic Centre for Biodiversity will be devoted to: 1)

the generation, management and maintenance of reference natural history collections, 2) the implementation of the genomic laboratory; and 3) the generation, maintenance and management of geophysical, environmental, genetic and genomic metadata. The data stored in this Centre provides detailed information about biodiversity on a regional scale and will make it accessible to the scientific, political, administrative, industrial, social and educational communities.

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UCambridge ProkaryoticGenetics

The Department of Genetics, University of Cambridge is recruiting to an Assistant Professor (Lecturer) position in the general area of Prokaryotic Genetics (https://www.jobs.cam.ac.uk/job/35939/). We are looking for a talented and ambitious individual whose research interests will extend the current profile of research in the Department (https://www.gen.cam.ac.uk/research-groups).

We are particularly interested in applications from individuals with strengths in genetic or quantitative approaches to genome biology, population and evolutionary genetics, or environmental genomics, that harness prokaryotic systems to address key questions in fundamental or applied biology. Shortlisted candidates will be outstanding scientists, with a track record of high quality research outputs and success in funding applications, who undertake cutting edge research and demonstrate the potential to develop links with other University Departments and institutions, both in the UK and internationally. The successful candidate will have an aptitude, enthusiasm and firm commitment to teaching at both undergraduate and postgraduate levels, and will be expected to contribute to and develop courses according to their expertise.

Applicants must have a PhD degree in a relevant subject, significant post-doctoral experience, and strong evidence of research excellence. University Assistant Professors are expected to develop and lead their own research programmes, so must be able to demonstrate a significant degree of independence.

The Department is committed to the Athena SWAN Charter to provide equal opportunities and to advance the representation of women and other under-represented groups in science. We particularly encourage women and/or candidates from a Black, Asian and Minority Ethnic background to apply for this vacancy as they are currently under-represented at this level within our University.

Appointment will be based on merit alone. As signatories of DORA (https://sfdora.org) the Department is committed to assessing research on its own merits rather than on the basis of the journal in which it is published.

Click the 'Apply' button below to register an account with our recruitment system (if you have not already) and apply online.

The closing date for applications is midnight on Sunday 30th September.

For informal enquiries about the role please contact Professor Steve Russell, Head of Department of Genetics (sr120@cam.ac.uk).

Further information about the Department can be found on our website (https://www.gen.cam.ac.uk/).

Please quote reference PC32194 on your application and in any correspondence about this vacancy.

The University actively supports equality, diversity and inclusion and encourages applications from all sections of society.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

"F. M. Jiggins" <fmj1001@cam.ac.uk>

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UEdinburgh QuantGenetics

The Roslin Institute is expanding in many areas of research, and as part of that strategic vision we are looking to appoint a Full Professor of Quantitative Genomics. We welcome candidates working in the broad area of quantitative genetics, quantitative genomics, and animal breeding to help us make transformative changes in livestock research and address major societal challenges, including food security and climate change.

We are looking for a team player, with a strong record

of sustained publication of international quality, and the drive and potential to make an outstanding contribution to this research area. This is an opportunity to participate in the activities and intellectual life of the University of Edinburgh and The Roslin Institute, as well as contributing to delivering the broader research vision of the Director and addressing major strategic themes from BBSRC (https://www.ukri.org/councils/-bbsrc/). Industry-related experience and the ability to influence policy will be a bonus. Finally, the post brings the opportunity to form and lead the Data Driven Innovation (https://ddi.ac.uk) funded Centre for Breeding to drive the next wave of innovations in collaboration with the wider University (precision phenotyping, machine learning, satellite imaging, genome editing, etc.) and extensive industry contacts.

Prospective candidates wishing to discuss the appointment should contact Professor Bruce Whitelaw, Director of the Roslin Institute (Bruce.Whitelaw@roslin.ed.ac.uk), Professor Albert Tenesa (Albert.Tenesa@ed.ac.uk), Professor Andrea Doeschl-Wilson (Andrea.Wilson@roslin.ed.ac.uk), or Dr Gregor Gorjanc (Gregor.Gorjanc@roslin.ed.ac.uk). If you are at WCGALP, feel free to approach Andrea or Gregor for a chat.

The deadline is 16.00 BST on the 1st of August 2022.

The full description of the post can be found here: https://edin.ac/3R2reox The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh DhÃ¹n Ãideann, clàraichte an Alba, àireamh clàraidh SC005336.

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

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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.

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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UGraz ResTech Mammal eDNA

A research technician position is available at the Institute of Biology, University of Graz, Austria. The position is planned to start on October 1st, 2022 on a 20 hours/week basis and fixed-term for 1 year (with the possibility to extend for a second year). The successful candidate will contribute to the recently started FWF project: The dynamics of environmental DNA in subtropical waterholes: Uncovering the potential of aquatic eDNA to infer African terrestrial mammal biodiversity.

Responsibilities: Perform molecular genetic analyses on environmental DNA (eDNA) and tissue samples, including: - eDNA extractions from filtered water samples and sediment samples, and DNA extraction from tissue samples. - Real-time PCR (especially TaqMan qPCR) - Conventional end-point PCR - Sanger sequencing - Metabarcoding library preparation for HT-sequencing - Training of bachelor and/or master students in laboratory processes

Qualifications required: - Methodological knowledge in relevant laboratory processes (DNA extractions, PCR, Sanger sequencing, qPCR. Experience with HT library preparation is an advantage). - Ability to process samples with utmost cleanliness and care and under clean room conditions - Ability to work independently as well as troubleshoot and optimize laboratory processes - Experience in processing non-invasive samples, such as fecal or eDNA samples, especially from mammals, is an advantage. - Completed bachelor studies in biology/microbiology/molecular biology/zoology or similar desirable - Competence in written and spoken English is required, competence in German is advantageous for living in Graz but not required for the position.

Application documents: - Cover letter with short personal introduction (less than a A4 page). - Curriculum Vitae - Proof of any university degrees - Proof of any scientific publications, if available

Call open until August 20th, 2022

Please send any inquiries and/or applications to: tamara.schenekar@uni-graz.at

Dr. Tamara Schenekar Institut fi¿½r Biologie Karl-Franzens Universitï¿½t Graz Universitï¿½tsplatz 2 A-8010 Graz, Austria Tel: +43-316-380-3979 https://homepage.uni-graz.at/en/tamara.schenekar/ "Schenekar, Tamara (tamara.schenekar@uni-graz.at)" <tamara.schenekar@uni-graz.at>

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UHamburg StaffScientist EvolCompBiol

A second job opportunity in my group: Here I am looking for a computational biologist to support our research on evolutionary genetics, genomics and peptidomics of the adaptive immune system (especially MHC/HLA), using both sticklebacks and humans as model systems. My lab has recently moved to the University of Hamburg (Northern Germany) and we are now recruiting new group members.

The position is a permanent, full-time staff-scientist position (postdoc-level)! (This is a different position than the postdoc-position I posted two weeks ago)

The application deadline is July 28 (very soon!)

Please follow this link to apply online through the university system:

https://www.uni-hamburg.de/en/stellenangebote/-ausschreibung.html?jobID6b25971438a38372950a9d28f644e02959fa84

In my group we are studying the genetic basis for variation in immunocompetence and disease susceptibility in vertebrates, with a particular focus on the adaptive immune system and specifically the process of antigen presentation (MHC/HLA) and recognition (TCRs). We usually take an evolutionary perspective and aim to understand the factors and mechanisms that maintain genetic diversity in this context, but are also interested in the consequences of this diversity for the individual's health and have several ongoing collaborations with clinical groups on specific complex diseases.

This position will particularly strengthen our work on the genomic side, being responsible for driving our work on the genomics of adaptive immunity in both humans and sticklebacks forward. We require support for our work on evolutionary and population genetics of sticklebacks in the context of local immunogenetic adaptation as well as in analysis of complex deep NGS data analysis of TCR repertoires.

At the same time we also need support in our collab-

orative projects on genetic and functional diversity of HLA immune genes in complex human diseases. We have been very successful so far in applying novel concepts to HLA diversity in human diseases (Arora et al. 2019 PNAS, Chowell et al. 2019 Nat Med) and will build on these approaches. This position (and the environment we provide) thus holds great promise for exciting research projects into the evolution and genetics of antigen recognition and adaptive immunity, including potential translational projects in human diseases.

The position requires experience with computational/bioinformatics and biostatistcs work, e.g. NGS data analysis. For more specific requirements and duties, please see the advert above.

Our newly renovated labs and offices in the Institute for Animal Cell and Systems Biology at the University of Hamburg are situated in the middle of Hamburg, the second largest city in Germany. The institute is neighboring the main university campus with its bustling student life and cafes, and easy to reach by bike or any public transport (and car, if you must).

Please see also our lab website for more info: http://www.biologie.uni-hamburg.de/-evolutionaryimmunogenomics Please do not hesitate to contact me for informal inquiries, Tobias Lenz

Prof. Dr. Tobias Lenz, Heisenberg-Professor Research Unit for Evolutionary Immunogenomics University of Hamburg Department of Biology Institute of Animal Cell and Systems Biology Martin-Luther-King-Platz 3 20146 Hamburg, Germany

Tel: +49 40 42838 5369 Email: tobias.lenz@uni-hamburg.de

http://www.biologie.uni-hamburg.de/-evolutionaryimmunogenomics “tobias.lenz@uni-hamburg.de” <tobias.lenz@uni-hamburg.de>

UInnsbruck EcoEvoAdmix TA

TA position University of Innsbruck: A Technical Assistant position is available within a 6-yrs FWF START project on eco-evolutionary dynamics and admixture led by Markus Moest at the University of Innsbruck. We investigate admixture in an aquatic keystone grazer and study the consequences of admixture on eco-evolutionary dynamics in the context of global change on the population, species, community, and ecosystem level. The position is funded for 3+3 yrs at 50% employment with the possibilities of full and/or extended employment.

Your responsibilities The TA will be involved in a large field campaign collecting plankton and sediment cores in peri-Alpine lakes and will be responsible for maintaining Daphnia and algae cultures. Moreover, the TA will help with phenotyping assays, molecular lab and mesocosm experiments, which will be set up at the University’s Research Institute for Limnology (ILIM) in Mondsee.

Your skills The planned work requires a high degree of independence and the ability to work in a team. Prior experience in any of the following areas will be an advantage but is not strictly required: (i) molecular lab work (DNA extractions, PCRs, library prep,.), (ii) cultivation of animals and/or microorganisms, (iii) lab management. The work with an international and diverse team and several international collaborators will require some English skills.

What the position offers The annual gross salary is ~16.000 EURO for 50% employment (alternative arrangements are possible). The contract includes health insurance and 5 weeks of holidays per year. Furthermore, the university has numerous attractive offers: https://www.uibk.ac.at/universitaet/-zusatzleistungen/index.html.en I aim to ensure an excellent working environment in which everyone can contribute their experience, ideas and ways of thinking and I offer and support professional training. Moreover, I strive for cultural and gender equity, diversity, and inclusion for anyone to be involved in this project. Candidates with a broad range of backgrounds, perspectives, and ideas will be welcomed and are encouraged to apply. For more information on the position, the project, the group, or the University, please do not hesitate to contact me(Markus.Moest@uibk.ac.at).

How to apply I am looking forward to receiving

your application. Please send a single pdf file including a short letter of motivation and curriculum vitae and contact details of previous employers (if any) to mailto:Markus.Moest@uibk.ac.at. Applications should be written in English or German.

MOEST Markus, PhD University of Innsbruck Technikerstrasse 25 (Room 517) A-6020 Innsbruck Tel: +43 (0)512 507-51771 Fax: +43 (0)512 507-51799 E-mail: mailto:Markus.Moest@uibk.ac.at

"Mï¿½st, Markus Hartmann" <Markus.Moest@uibk.ac.at>

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ULisboaCe3C OrganismalEvolutionaryBiology

OPEN CALL

One position for Research Technician with a Master degree is open at FCiências.ID Associação para a Investigação e Desenvolvimento de Ciências, within the scope of the project HYBRIDOMICS: Can hybridization fuel adaptation and species response to environmental change? Genomics and proteomics of endemic Iberian freshwater fish (Ref. PTDC/BIA-EVL/4345/2021), financed by Fundação para a Ciência e a Tecnologia, I.P./MCTES.

The present call will be open from 20th July to 2nd August 2022.

Admission Requirements: Portuguese nationals, foreign and stateless persons may submit applications to this selection procedure, provided they hold a master's degree in biology, biochemistry or similar areas, and fully comply with the following requirements:

1. The candidate must have demonstrated experience in cell and/or tissues animal cultures, specifically knowledge of laboratory techniques for culture establishment and maintenance information provided on the CV. 2. Demonstrated experience with in vivo models (e.g. maintenance and manipulation of animals) information provided on the CV; 3. Proficiency in English (written and spoken) information provided on the CV.

Place of work: The work will be developed at the facilities of Research Center cE3c Centre for Ecology, Evolution and Environmental Changes, in Campo Grande, Lisbon, Portugal.

Work Plan: The work plan includes the following tasks:

1. establishment and maintenance of cell lines derived from tissues from freshwater fish (e.g., fin-clip derived fibroblasts and hepatocytes derived from liver); 2. perform experiments with cell lines in controlled conditions; 3. maintenance and manipulation of animals in the animal facility (freshwater fish); 4. perform experiments in controlled environment with freshwater fish in aquaria, including; 5. laboratory management, specifically ensuring orders, management of consumables and reagent stock, ensuring the maintenance of a clean cell culture room.

More info: https://euraxess.ec.europa.eu/jobs/815253 best regards,

Evolutionary Genomics and Bioinformatics cE3c - Centre for Ecology, Evolution and Environmental Changes & CHANGE - Global Change and Sustainability Institute Faculdade de Ciências da Universidade de Lisboa egce3c@fc.ul.pt

"Evolutionary Genetics @ cE3c" <egce3c@fc.ul.pt>

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UManitoba EvolutionaryBiology

Assistant Professor Position # 32313

The Department Biological Sciences invites applications for a full-time tenure-track position at the Assistant Professor rank, commencing 01 July 2023, or on a date mutually agreed upon. Salary will be commensurate with experience and qualifications. The Department seeks an outstanding and visionary early career scholar committed to the study of animal development biology. The candidate will demonstrate research excellence and hold a PhD degree or equivalent in a relevant discipline such as, but not limited to, Biology, Genetics or Biochemistry. Post-doctoral experience is preferred. Using the strengths of multi-cellular model organisms, the successful candidate will be expected to develop a competitively funded programme in an area such as animal/microbe interactions; animal cell and developmental biology; genomics; gene by environment interactions or developmental neuroscience. Duties will include meaningful contributions to the research, teaching, and service activities of the Department. The successful candidate will have a track record of high-quality scholarly research leading to peer assessed publications; will ei-

ther have, or demonstrate the potential to establish, an independent, innovative, scholarly, externally fundable research program; will have demonstrable strength in or strong potential for outstanding teaching contributions; and will exhibit evidence of the ability to work in a collaborative environment.

To enhance our department, we particularly invite applications from those who will increase and support our diversity, including women, Indigenous peoples, persons with disabilities, racialized persons, underrepresented groups such as 2SLGBTQIA+, and those committed to an inclusive environment. The Department currently has 31 full time tenured and tenure track faculty members and 7 Instructors and offers a full range of both undergraduate and graduate programs in areas including molecular biology, evolution, physiology, development, systematics, ecology, behaviour, and plant pathology. The Department of Biological Sciences is a well established and equipped research facility including microscopy, CCAC approved animal holding facilities and is supported by strong research links with other University of Manitoba departments and faculties. Further information can be obtained from https://sci.umanitoba.ca/biological-sciences/ .

The University of Manitoba is a driving force of innovation, discovery and advancement. Our momentum is propelled by our campus community - UM faculty, staff and students whose determination and curiosity shape our world for the better. Our teaching, learning and work environment is uniquely strengthened and enriched by Indigenous perspectives. With two main campuses in Winnipeg, satellite campuses throughout Manitoba, and world-wide research, UM's impact is global.

Discover outstanding employee benefits, experience world-class facilities and join a dynamic community that values reconciliation, sustainability, diversity, and inclusion. We are one of Manitoba's Top Employers and one of Canada's Best Diversity Employers. At the University of Manitoba, what inspires you can change everything.

The City of Winnipeg (www.tourismwinnipeg.com), located where the Red and Assiniboine Rivers meet, is recognized for its vibrant, multicultural community and diverse culture. The city, with a growing population of more than 766,000, is home to internationally renowned festivals, galleries and museums, the historic Exchange District and The Forks, and ever-expanding research, education, and business sectors. From the Hudson Bay waters, across the farmland fields, to the pulse of the cities and towns, The Province of Manitoba's (www.travelmanitoba.com) people and places - its 100,000 lakes, 92 provincial parks, winding river valleys and storied prairie skies - inspire.

The University of Manitoba is committed to the principles of equity, diversity & inclusion and to promoting opportunities in hiring, promotion and tenure (where applicable) for systemically marginalized groups who have been excluded from full participation at the University and the larger community including Indigenous Peoples, women, racialized persons, persons with disabilities and those who identify as 2SLGBTQIA+ (Two Spirit, lesbian, gay, bisexual, trans, questioning, intersex, asexual and other diverse sexual identities). All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

If you require accommodation supports during the recruitment process, please contact UM.Accommodation@umanitoba.ca or 204-474-7195. Please note this contact information is for accommodation reasons only.

Applications including a curriculum vitae, a description of teaching

— / —

UMichigan Bioinformatician

We are currently seeking applicants for a bioinformatician position in the Bradburd lab in the Department of Ecology and Evolutionary Biology at the University of Michigan. Research in the lab is focused on the geography of evolution, and particularly on developing statistical methods for spatial population genetics/genomics. Our work combines computational and statistical approaches, with a strong emphasis on simulation and empirical data analysis.

The Bradburd lab values diversity and is committed to creating a safe, welcoming, supportive, and fun lab environment. Applications from candidates with related scientific interests who are also passionate about diversity, equity, and inclusion in STEM are strongly encouraged. The lab is located in the beautiful Museum of Natural History building on University of Michigan's campus. Ann Arbor is consistently rated as one of the most "live-able" cities in the country.

Responsibilities: The candidate will be expected to interact with researchers within the group, publish their work in peer-reviewed journals, and share their code openly.

Required Qualifications: The ideal candidate will be a bioinformatician or software engineer with appropriate professional experience and a background in genomic data manipulation and management, ideally in a research environment. Also seeking a candidate with experience building robust bioinformatics pipelines, and expertise in navigating high-performance computing environments, as well as in relevant programming languages (R, Python, C++). Expertise in population genetics is desirable but not essential.

Additional information: The position is a term-limited position and will be available for up to three years (subject to annual review), with a starting salary of approximately $75,000/yr and benefits, based on education and experience of the selected candidate. The overall salary range for this position is $62,100 - $77,700. Benefits include: generous time off (including vacation sick, and holiday days); a retirement plan with two-for-one matching contributions with immediate vesting; comprehensive health insurance; life insurance; long-term disability coverage; flexible spending accounts for healthcare and dependent care expenses).

The ideal start date is Fall 2022, but that date can be flexible for the right candidate.

How to Apply: Review of applications will begin immediately and continue until the position is filled. Interested candidates should submit a PDF of their CV along with a cover letter describing their qualifications and relevant experience to Gideon Bradburd (bradburd@umich.edu). More information can be found at genescape.org/recruitment.

Gideon Bradburd <bradburd@umich.edu>

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USouthernCalifornia TeachingEvolution

Full-Time Lecturer or Assistant Professor of Teaching Position in Biological Sciences, University of Southern California

The Department of Biological Sciences in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California in Los Angeles, California, seeks applications for a full-time teaching-track Lecturer or Assistant Professor position starting Jan 2023. We seek an instructor who has experience in undergraduate teaching in the following subject areas: General Biology, Evolutionary and Conservation Biology, Population Genetics and Ecology. Prior experience with undergraduate teaching laboratories is encouraged but not required.

Applicants must have a Ph.D. in a relevant field of Biology (e.g., Ecology, Evolution, Microbiology, Molecular Biology or Marine Biology). Please submit a cover letter, CV, teaching evaluations and the names of three referees who may be contacted by USC for letters of reference that speak to your teaching abilities. Applications will be reviewed immediately and continue until the position is filled. In order to be considered for this position, applicants are required to submit an electronic USC application; follow this job link or paste in a browser: https://usccareers.usc.edu/job/-los-angeles/full-time-teaching-track-faculty-positions-in-biological-sciences/1209/14601017 .

USC is an equal opportunity, affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, disability, or any other characteristic protected by law or USC policy. USC will consider for employment all qualified applicants with criminal histories in a manner consistent with the requirements of the Los Angeles Fair Chance Initiative for Hiring ordinance.

Ian Ehrenreich <ehrenrei@usc.edu>

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UUlm ResTech BeeEvolution

Technician bee virus evolution

We would like to recruit a Technician to support lab work as part of an ERC consolidator project to study the evolution of bee viruses in nature following the introduction of a vector, the ectoparasitic Varroa mite. The lab work will include molecular ecology (e.g. RNA extractions, qPCR, and sample preparation for next generation and single molecule sequencing) as well as support for

molecular evolution experiments (e.g. cloning, routine microbiology, help with infection assays in bees). The ERC funded post is until the end of February 2026 (salary scale TV-L 7, 100%), with a preferred starting date in autumn 2022. The position can be readily split into part-time positions.

The ideal applicant will have a technical apprenticeship or similar qualification, with experience in molecular biology/ecology/evolution. Detailed information on the ideal profile can be found here < https://stellenangebote.uni-ulm.de/jobposting/-6b78c8aecb70995deadb071c6a098ee40ca9bf69 >. For administrative reasons, the advert is in German only; we also welcome applications from non-native speakers for this position, please get in contact if you are interested.

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. Our institute is an international and interactive team, comprising of 4 groups working on topics in fundamental and applied Evolutionary Ecology including for example Conservation Genomics, Host-Parasite Interactions and Pollinator Ecology (https://www.uni-ulm.de/nawi/-evolutionary-ecology-and-conservation-genomics/).

For further information, please contact Prof. Dr. Lena Wilfert lena.wilfert@uni-ulm.de. The closing date is the 21st of July 2022.

The job advert with detailed information on profile and responsibilities, as well as the link to the online application system can be found here < https://stellenangebote.uni-ulm.de/jobposting/-6b78c8aecb70995deadb071c6a098ee40ca9bf69 >:

https://stellenangebote.uni-ulm.de/jobposting/-6b78c8aecb70995deadb071c6a098ee40ca9bf69 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

email: lena.wilfert@uni-ulm.de Website: https:/-/www.uni-ulm.de/nawi/evolutionary-ecology-and-conservation-genomics/prof-dr-lena-wilfert Lena Wilfert Ulm <lena.wilfert@uni-ulm.de>

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UUlm Two PlantEvolution

The University of Ulm, Germany, is looking to appoint two professors in its recently founded Institute of Botany. Both professorships (one in Ecophysiology, one in Molecular Botany respectively) will strengthen the Department of Biology's research focus on "Stress and Resilience of biological Systems". Applicants taking an evolutionary approach would be highly welcome for both positions!

The deadline for application is the 9th of September, full details can be found here

1) W3-Professorship in Ecophysiology: https:/-/stellenangebote.uni-ulm.de/jobposting/-15f5cb3066b1bf06ac3e17172718559fd719fed9
2) W3-Professorship in Molecular Botany: https://stellenangebote.uni-ulm.de/jobposting/-5c93796bd13b2ff8fe9714b057cd4c1266608756 Lena Wilfert <lena.wilfert@uni-ulm.de>

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UWarwick EvolDevo

The University of Warwick (UK) is looking for an Assistant or Associate Professor in Developmental Biology: https://www.jobs.ac.uk/job/CRL926/assistant-or-associate-professor-78461-0722 Focus on: 1. Tissue-scale development and patterning 2. Developmental genetics 3. Comparative biology (e.g. evo-devo, genomics)

Deadline: 9th Aug 2022

"Pires da Silva, Andre" <Andre.Pires@warwick.ac.uk>

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WilliamJewellCollege TeachingAnimalEvolution

Part-Time Visiting Instructor in Biology, William Jewell College

The Department of Biology seeks a visiting instructor with expertise in the evolution or ecology of animals, to teach one lecture course and its accompanying lab/s each semester (fall, spring) for the 2022-23 academic year, with optional renewal for 2023-24. The instructor in this position will teach 30-35 first-semester biology major students in the fall and 6-20 senior-level biology major students in the spring.—

William Jewell College is a nationally ranked liberal arts college with an enrollment of about 800.— It is located in Liberty, Missouri, a suburb of Kansas City.— The Department of Biology offers bachelor's degrees in biology and molecular biology, and, in conjunction with the Department of Chemistry, a bachelor's degree in biochemistry.— Additionally, the Department offers pre-requisite courses for students preparing for careers in a variety of health professions (premed, nursing, physical/occupational therapy).——

Duties and Responsibilities — -————————In Fall 2022 the instructor will teach BIO 133 Evolution and Ecology and its two accompanying lab sections. BIO 133 is an introductory biology course for first year Biology majors. It uses concepts of ecology and evolution to introduce students to scientific literacy and methods.—

-————————In Spring 2023 the instructor will teach an upper division biology course and its accompanying lab. This will be a course for biology majors in their final semester of the program. The specific course taught will depend upon the expertise of the applicant but must be animal focused. Potential courses include Evolution, Animal Behavior, Plant-Animal interactions, Herpetology, Ichthyology, Entomology, Vertebrate Ecology, Conservation Biology, Biogeography, Animal Taxonomy, and Terrestrial Ecology.——

-————————Attendance at appropriate faculty meetings for the Department of Biology is expected.

Qualifications — -————————An earned doctorate (MD, PhD) or master's degree (MA, MSc) in the teaching discipline, or Doctoral Candidate status in a current doctoral program with a concentration in the teaching discipline—

-————————Ability to teach a minimum of 75% of lecture and laboratory material in-person; exceptions will be made for safety in response to changing pandemic conditions throughout the semester

The above statements are intended to describe the general nature and level of work being performed by employees in this position.— They are not intended to be an exhaustive list of all duties, responsibilities, and qualifications of employees assigned to this job.

Application Procedure — Candidates must submit the following documents through—http://www.jewell.edu/-employment—:— - Letter of application and—curriculum vitae - Transcripts (copies are acceptable until finalists are selected) - Brief statement of teaching philosophy plus any additional evidence of teaching effectiveness - Three—confidential letters of recommendation—(to be sent directly by your referees), along with name and contact information for the referees - Statement of how you would contribute to our college mission (see below) - Statement of how you would contribute to inclusivity and diversity on campus

Applicants that need accommodation for the application or interview process, please make such accommodation request in advance to the Office of Human Resources.

William Jewell College Office of Human Resources 500 College Hill Box 1017 Liberty, MO—64068 (816) 415-5992

Availability Review of applications will begin immediately.—Position is open until filled.

All final candidates will be required to successfully pass a criminal background check prior to beginning employment.—

Our Mission:— We educate our community to ask reflective questions, apply critical thought and act with purpose. — William Jewell College is an equal opportunity employer. —

Rose M. Reynolds, Ph.D. Associate Professor of Biology, Chair Pronouns: she/her Make an appointment: https:/-/calendly.com/rmreynolds Office: 816.415.7894 Fax: 816.415.5027 William Jewell College | www.jewell.edu

"Reynolds, Rose" <reynoldsr@william.jewell.edu>

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Other

Butterfly samples

Dear Ecologists and Evolutionary Biologists,

We are looking for collaborators to sample common evening brown butterflies (Melanitis leda). This species occurs throughout Africa and the Austral-Asian region, and is often common. We are interested in documenting colorations of this species during a complete year in different parts of its range. The non-lethal sampling can be done in a garden or plantation. Sampling consists of photographing butterflies against a standard grey card in the field, and we are also interested in a few specimens on ethanol for genomic analysis. Maybe you already have specimens and we could assist with photographing them. We offer co-authorship and have funding to supply butterfly traps and other needs. If interested, please contact Freerk Molleman at fremol@amu.edu.pl.

Warm greetings,

Freerk

Freerk Molleman <fremol@amu.edu.pl>

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ESEB Volunteer AcademicActivitySurvey

Dear colleagues,

The European Society for Evolutionary Biology (ESEB) aims to foster the development and integration of local evolutionary research communities from regions outside of the traditional strongholds of the discipline and their links with the evolutionary biology community in Europe. To address this need, ESEB recently transformed the Global Training Initiative, mainly focused on supporting training activities, to the Global Evolutionary Biology Initiative (GEBI) which can provide financial, organisational and strategic support as required.

You may find more information on GEBI here: https://eseb.org/prizes-funding/global-evolutionary-biology-initiative In order to facilitate the organization of local meetings and teaching in evolutionary biology, we plan to build a database of scientists interested in volunteering as speakers or tutors, pro bono.

If you would consider joining GEBI-supported activities from time to time, we kindly ask you to fill in the short form at https://forms.gle/wvbZ7ArD6gbr4Gib6 We hope that together we can expand high quality research and teaching in evolution around the world.

Thank you!

The ESEB Global Evolutionary Biology Initiative committee

Mehmet Somel <somel.mehmet@googlemail.com>

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ing@mcmaster.ca)

KalahariMeerkat Twelve VolFieldAssist

Dear all,

The Kalahari Meerkat Project is a long-term field project investigating the ecological causes and evolutionary consequences of cooperative breeding. The project, based in the Northern Cape of South Africa, has 12 month positions available for volunteer field assistants to conduct behavioural observations on meerkats, starting from October 2022 onwards. The closing date for applications is 30 July 2022.

Please share this with anyone that may be interested.

Thank you.

Kind regards, Laurie Johnson & Doli Borah

Meerkat Managers

Kalahari Meerkat Project

Kalahari Meerkat Project https://-kalahariresearchcentre.org/ Information about volunteering and how to apply Volunteer frequently asked questions (FAQ)

Meerkat Project <meerkat.volunteers@gmail.com>

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Lapland FieldAssist SiberianJay

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

For 5 August to 15 October 2022, we are looking for 1 highly motivated, expenses-paid field volunteer to assist with our field project (principal investigator Dr. Michael Griesser, University of Konstanz). The study site is located near Arvidsjaur in Swedish Lapland. An overview over our past work can be found here: https://-/www.youtube.com/watch?v=JaH6wjAYAiE Our current project investigates the effect of social interactions on the dispersal of Siberian jays. The work of the field volunteers will be to help with catching, and colour-ringing birds, sampling blood, conducting population censuses and behavioral observations, assist in experiments and managing data. This work will provide insights into a long-term study system and will be carried out in managed and pristine boreal forests.

Please note that daytime temperatures at the end of the season can be as low as -10C. Fieldwork at times involves walking up to 15km per day.

Qualifications: 1) Field work experience, involving behavioural observations and experiments 2) Bird ringing and mist-netting experience 3) Ability to work in small team and sociable personality 4) Driver's license (manual transmission) 5) Fluent in English

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

Applications, including a CV, letter of motivation (1 page), and the name of two referees, should be sent to Michael Griesser michael.griesser@uni-konstanz.de, preferably in a single PDF.

Review of applications will start 11 July 2022, position will remain open until filled.

Michael Griesser Heisenberg Fellow Department of Biology University of Konstanz

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

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MajorContributions EvolBiol

dear and reputable members of the evoldir,

just quickly: If you take a look at the introduction of d.futuyma's 1998 text book "evolutionary biology" (1998, p.6-7) you will see that he credits the discipline with major contributions to society, but actually he lists none (is an HIV phylogeny a major contribution to medicine?!).

so i wanted to propose to you all that we all start emailing to both evoldir and doug one or two examples of outstanding findings by evol.biologists that may be major contributions to medicine, agriculture, etc.

i start below with my two examples:

1) my finding in Duan&Antezana (JME 2003(57):694-701) that one can accelerate and slow down mRNA degradation in mammalian cells by adding and removing 5'UA3' dinucleotides to/from the RNA of interest, respectively (duan did the bench work but called the project "garbage" until he saw the results).

the trick has been heavily exploited in pfizer's cov-2 vaccine: ~80% of wt cov-2's UAs were removed: 412 -> 86 counts). All gene-expression vaccines in the future will likely exploit this trick. See ALNs, etc at: www.researchgate.net/project/80-removal-of-5UA3s-from-cov-2-RNAs-used-in-Pfizers-vaccine 2) william m.muir's epochal increasing of the egg laying of leghorn hens by a factor of 3 through five (5) generations of (group)selection of hen houses with largest communal egg output (when individual selection was stuck; Craig&Muir. Poultry Sci.1995(75):294-302).

Yes, artificial selection of individuals is honored in those futuyma pages but it has been used by humans for thousands of years before evolbio became a discipline. Muir's group selection success instead would not have been possible without both evolbio theory (starting with darwin's marbled meat) and evolbio experimental findings.

i hope you can come up with even better examples (i vaguely remember that some virologists working with foot-and-mouth disease or something managed to make sense of some results only after they interacted with evol.biologists).

best wishes

marcos

marcos.antezana@gmail.com

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Speciation Survey

Speciation genetics/genomics researchers:

We are soliciting participation in a survey to collect opinions about speciation genetics/genomics. If you work in this field please read on.

The survey primarily inquires about the species and systems that you study, the research approaches and techniques you use, and your opinions on the strengths and weaknesses of the species and systems you study.

Thanks for considering participating in this project, which we hope will highlight useful areas for future exploration and for technique/resource development! Please select the following link to begin the survey.

https://fresnostate.co1.qualtrics.com/jfe/form/-SV_eXWcoGHyvJApv4q Please feel free to share this survey link with other speciation genetics/genomics researchers.

"Delmore, Kira" <kdelmore@bio.tamu.edu>

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SticklebackStockCenter Survey

Dear Evoldir community:

If you are currently or even potentially considering using stickleback fish as a research organism, we ask that you complete the following survey, which should only take ~5 to 10 minutes. The University of Connecticut will be hosting a stock center to supply stickleback and associated organisms (microbes, parasites) to interested users, under the supervision of Dr. Kathryn Milligan-McClellan and Daniel Bolnick. The survey is designed to evaluate potential user's priorities so the center can best meet the research community's needs. The survey can be taken here:

https://forms.gle/5YMM61BvKT5RjEv17 Thank you for your replies. Questions may be directed to Dr. Bolnick (daniel.bolnick@uconn.edu) or Dr. Milligan-McClellan (kathryn.milligan-myhre@uconn.edu)

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

daniel.bolnick@uconn.edu

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

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

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

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UOulu Finland VisitingFellowships BiodiverseAnthropocenes

VisitANTS Fellowship

This fellowship programme will host approximately 10 fellows in residence for a period of 3 to 6 months starting in January or April 2023. Selected fellows will carry out research while also contributing to Biodiverse Anthropocenes programme activities and events. Fellowships are open to PhD holders. DL: August 15. 2022.

VisitANTS in Critical Studies of Biodiversity and the Anthropocene is a residential research fellowship programme. Between 10 and 12 fellows will come together at the University of Oulu for 3-6 months over the 2022-2023 academic year. Fellowships are open to post-doctoral and senior scholars carrying out research on the environment, biodiversity and/or society.

Biodiverse Anthropocenes (AKA ANTS: https://-www.oulu.fi/en/biodiverse-anthropocenes) is a trans-disciplinary research programme and intellectual community at the University of Oulu. Our scholars pursue research on environmental change and biodiversity loss, and/or human socio-cultural responses to these processes. Selected fellows will work in residence in Oulu for the duration of their fellowship and will actively contribute to the programme's activities (e.g., scientific research, public talks, academic and outreach events). We seek to provide a stimulating scholarly environment in which to pursue research, write publications, develop new transdisciplinary connections, and network with others. Fellows will be offered a workspace and full access to university libraries and research facilities and will receive a monthly grant to cover living costs in Oulu.

VisitANTS fellows are scholars who have worked in, and show strong potential to advance, research on the environment, biodiversity and/or society. This work may take place across a broad range of natural and social science and humanities disciplines (e.g., anthropology, archaeology, biology, ecology, education, environmental humanities, geography, history, philosophy, etc.). Proposed scientific research projects may have a citizen science or outreach component. Applicants are welcome to apply either individually or in collaboration with another researcher from outside the University of Oulu. If you are applying with someone else, e.g., as a team of two scholars, we kindly ask you to each submit your own individual application, making reference to the collaborative nature of your proposals. We also encourage applicants to identify potential collaborators at the University of Oulu and to contact them to discuss your project in advance of applying.

Fellowship Awards Fellowships will be granted for a period of 3 or 6 months. The possible starting dates are 1 January 2023 (3 or 6 months) and 1 April 2023 (3 months). Applicants will be required to arrive in Oulu within several days of the above starting dates. Applicants should indicate their preferred duration and starting date in their application.

VisitANTS fellows will receive a stipend in the form of a grant that is intended to cover basic living costs (e.g., accommodation and food). Note that travel costs are not covered separately. For all scholars the amount paid is euro 2,000/month.

Requirements

fellows must have a demonstrable research track record and expertise in work on the environment, biodiversity and/or society; fellows must have submitted their doctoral thesis by 15 August 2022; fellows must commit to remaining in Oulu for a period of three or six months; fellows must begin their fellowships on the first day of the month and must conclude on the final day of the month; it is possible to take up the fellowship only on the following dates: 1 January 2023 or 1 April 2023; fellows must be willing to take part in University academic life with diverse groups of scholars.

To Apply The deadline for applications is 15 August 2022. Applications must be made via the online application form (https://link.webropolsurveys.com/-Participation/Public/81647e39-5e65-42ec-b234-772c45184311?displayId=Fin2578860). The online system closes to applications at 11:59pm (EET, e.g., Helsinki time) on 15 August 2022. Shortlisted applicants may thereafter be invited for online interviews, with final decisions by mid-May.

Applications (in English) should include the following:

Cover letter: (2 pages max) outlining your motivation for coming to Oulu and how your profile and proposed project speak to the Biodiverse Anthropocenes programme;

Curriculum vitae: (2 pages max) including relevant publications (we recommend you follow the TENK guidelines, available here: https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae);

Project description: (2 pages max) including overall objectives, research

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UParisSaclay Internship AphidAppleCoevolution

Dual-sequencing, coexpression and gene regulatory network to unravel the genes involved in coevolution in fruit tree-pest interactions

Amandine Cornille??s group (Ecology and (epi)genomics of fruit tree-pest interactions group, http://moulon.inrae.fr/en/equipes/eclectic/) at University Paris Saclay is recruiting a curious, ambitious and enthusiastic Master student to investigate the role of transposable elements in fruit trees in response to biotic stress

Lab address??(supervision): Institut Diversit?? ??cologie et ??volution du Vivant Laboratoire G??n??tique Quantitative et Evolution-Le Moulon 12 Route 128 91172 Gif-sur-Yvette France https://www.ideev.universite-paris-saclay.fr/en/ Supervisors : Amandine Cornille (amandine.cornille@cnrs.fr)

Project summary

Coevolutionary interactions, from the delicate co-dependency in mutualistic interactions to the antagonistic relationship of hosts and parasites, are a ubiquitous driver of adaptation. Surprisingly, little is known about the genomic processes underlying coevolution (Cornille et al 2022).

>From public health, food production to conservation, coevolution of hosts and parasite is central to addressing contemporary scientific challenges. Here we used ??dual RNA-seq?? approach to profile RNA expression simultaneously in parasite and host during Dysaphis plantaginea infestations of the wild and cultivated apples. The aim of the internship will be to investigate the gene co-expression between the host and the parasite to detect genes involved in coevolution. Note that several genotypes of aphids and apples were studied, which will allow testing for a Ghost*Gparasite interaction at the molecular level.

Master project

The intern will use short read Illumina data already available for both the aphid and the apple. The intern will trim the reads, map them to reference genomes of both the host and the pest, count the genes and statistically analyzed 1) differentially expressed genes, and 2) modules co-expressed genes depending on the aphid and apple genotypes. This will require to run and adapt bioinformatics pipelines available in the ECLECTIC group (Dicoexpress, Magniette et al 2020). The intern will also build regulatory gene network that are complementary to co-expression analyses using lioness (REF) and alpaca (REF). The results will have direct implications for breeding programs, agronomy institutes and industries making use of domesticated plants or developing biological methods of parasite control. The results will contribute to the sustainable management of apple genetic resources.

If the time allows it, the students will also investigate whether differentially expressed genes showed in the promoters transposable elements insertion. Transposable elements (TEs) are indeed considered to be key players in the adaptation of populations to stress, and to which extent TE insertions can be associated with changes in gene expression in the host and the parasite remain unknown.

Note that all coded workflow and data that will be generated for the project will be publicly available through open access platforms (Github, forgemia, Dryad) at the end of the project, providing transparency, reproducibility and replicability of the research. The results will be submitted to journals with Open Access to provide transparency for readers and allow other researchers to build directly and efficiently on primary work. Of course, sufficient contributions to the project will involve co-authorship.

Methodology: Bioinformatic, genomics, evolution, statistical analyses, writing.

Profile preferred for the candidate: Ideally, the candidate will have skills in evolutionary genomics and bioinformatics. He/she will not necessarily be familiar with apple or aphid model.

Gratification: 550-570 euros / month

Duration : 6 months, starting date: Fall 2022

Supervision??: Amandine CORNILLE - Charg??e de Recherche CNRS CRCN and group leader mail??: amandine.cornille@cnrs.fr Google Scholar profile : https://scholar.google.com/citations?user=-EqIE2h8AAAAJ&hl=fr Group page??: http://moulon.inrae.fr/en/equipes/eclectic/

References Cornille A.*, Ebert D., Stukenbrock E.,

Rodr??guez de la Vega R., Tiffin P., Croll D., Tellier A. Unraveling coevolutionary dynamics using ecological genomics. *corresponding author. Trends in Genetics. Accepted.

A. J. Westermann, L. Barquist, J. Vogel, Resolving host??pathogen interactions by dual RNA-seq. PLOS Pathog. 13, e1006033 (2017).

A. J. Westermann, S. A. Gorski, J. Vogel, Dual RNA-seq of pathogen and host. Nat. Rev. Microbiol. 10, 618??630 (2012).

Amandine Cornille <amandine.cornille@gmail.com>

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PostDocs

BielefeldU TheoreticalEvolution

Job announcement

Bielefeld University, Department of Evolutionary Biology

Postdoc position in Theoretical Evolutionary Ecology

Application deadline: 05.08.2022

The Faculty of Biology offers a full-time research position in Theoretical Evolutionary Ecology The position can start as soon as possible and is funded until the end of the year 2025 by the German Research Foundation (DFG) within the collaborative research centre (SFB/TRR 212) entitled: A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3). The aim of the Postdoc project is to develop ecological and evolutionary theory to contribute towards a better understanding of intra-species niche variation. The project is entitled "Armament, hunger, and mating: how competition can drive individual variation" (subproject D04 of the collaborative research centre, with Klaus Reinhold). This theoretical project will explore the conditions that favour the evolution of between-individual variation in behavioural niches. The aim is to focus on competition for food, territories and mates and examine to which extent phenotypic variation can be maintained based on genetic differences or variation in adaptive phenotypic plasticity.

The collaborative research centre: The postdoc will be embedded within a larger collaborative research centre (SFB) comprising about 20 principle investigators and more than 20 postdoc and PhD students based at Bielefeld University, the University of Münster and the University of Jena. The aim of the SFB is to produce a conceptual and empirical synthesis of individualisation across behaviour, ecology and evolution. The SFB will provide exceptional opportunities for interdisciplinary collaboration and academic networking, together with structured training, scientific exchange and early career support programs. Full details of the SFB can be found at www.uni-bielefeld.de/biologie/-crc212. For further information on the projects and the involved departments, please contact Klaus Reinhold (klaus.reinhold@uni-bielefeld.de) with any informal inquiries.

Main responsibilities: research tasks (95 %): - development of eco-evolutionary models, including - mathematical analysis of models - implementation in a programming language, e. g. in R, C++, Python - simulation studies - writing scientific publications for international journals

organizational tasks in the research group and collaborative research centre (5 %)

Your Profile We expect - completed scientific university degree in a relevant discipline, e.g. biology, mathematics, physics or bioinformatics - completed PhD in theoretical ecology, population genetics, behavioural ecology or evolutionary ecology - experience with mathematical modelling of evolutionary processes - programming skills in at least one programming language (e. g. R, C++, Python) - interest in biological and mathematical questions - ability to work both independently and as part of a team - very good oral and written communication skills in English

Preferable qualifications - papers in peer-reviewed international journals - experience in collaborations between empiricists and theoreticians - experience with high-performance computing

We offer

- salary according to Remuneration level 13 TV-L - fixed-term employment limited until 31.12.2025 (ç 2 (1) sentence 2 of the WissZeitVG; in accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases) - fulltime 100 % contract - internal and external training opportunities - variety of health, consulting and prevention services - flexible working hours - job ticket for regional public transport network - collegial working environment - open and pleasant working atmosphere - exciting, varied tasks Application Procedure: We are looking forward to receiving your application. For full consideration, your application should be received via either email (a single PDF document is required) sent to klaus.reinhold@uni-bielefeld.de or post (see postal address). Please mark your application with the identification code: Wiss22529. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail.

Application deadline: 05.08.2022 Postal Address Bielefeld University Biological Faculty, Evolutionary Biology Prof. Dr. Klaus Reinhold P.O. Box: 10 01 31 33501 Bielefeld Germany

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

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

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CharlesU Prague PolyploidPopGenomics

***ERC-funded postdoctoral position in population genomics of whole genome duplication

Group of Ecological Genomics (Filip Koláø) Department of Botany, Charles University, Prague, Czech Republic https://botany.natur.cuni.cz/ecolgen Deadline July 25

Whole genome duplication (WGD, polyploidization) is a ubiquitous genome-wide mutation and a dominant force in sympatric speciation, particularly in plants including many crops. It is usually assumed that polyploidy poses an instant barrier to gene flow between diploid and its polyploid derivative. Our genomic survey in wild Arabidopsis, however, recently demonstrated rampant gene flow across the presumable ploidy 'barrier'. Yet evolutionary consequences of such unexpected genome permeability and generality of this finding across plant diversity remain elusive.

We seek a highly motivated, independent early career researcher interested in developing a research program within the context of an ERC-funded project. Keen interest in in leading an independent research program and a strong background in structural, statistical, and/or population genetics/genomics are required. Alongside head-start with available data, the candidate is expected to be fully involved in the overall project design and lead the analytical part of the project. Student (co-)supervison and lecturing at the faculty is not required but supported as well as the development of further independent self-funded research projects.

For more info on the project and application procedure see the relevant project at https://cuni.cz/UKEN-318.html#21 Filip Koláø Department of Botany Faculty of Science, Charles University Benatska 2, CZ - 128 01, Prague, Czech Republic *https://botany.natur.cuni.cz/-ecolgen/ Filip Kolar <filip.kolar@gmail.com>

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CzechRepublic EcoEvolutionaryDynamics

Postdoc in eco-evolutionary dynamics of communities

A two and half-year postdoctoral position in eco-evolutionary dynamics of host-parasite communities is available in Jan Hrcek's lab [http://lab.hrcek.net] at the Biology Centre, Czech Academy of Sciences, Ceske Budejovice, Czech Republic.

The candidate will develop a project on the interface between population genetics and community ecology. Our laboratory utilizes a novel experimental community model system of wild Drosophila species and their parasitoids from tropical Australia. We are able to perform multigenerational laboratory microcosm experiments and track eco-evolutionary dynamics in fine detail. The candidate's project will be complementary to Jan's ERC-CZ grant investigating relationships between the maintenance of genetic variation within populations and species diversity within ecological communities. These processes are typically studied separately, but likely interact to structure diversity in ecological communities. The laboratory is an international team of PhD students, postdocs and technicians and the applicant will have the opportunity to work extensively with other team members. The laboratory can provide substantial resources and support for exceptional research. Further, the candidate will collaborate within the PI's wide network and establish new links for this project.

Primarily, we are looking for a candidate with experience in either (i) theoretical eco-evolutionary dynamics modelling or ecological modelling, or (ii) population genetic/genomic modelling. The candidate is expected to develop models tied to our Drosophila - parasitoid system, as well as more general models for addressing broad questions in eco-evolutionary dynamics. The candidate's project can also include laboratory and field experiments. Candidates without experience in modelling but with interest in the topic are also encouraged to get in touch.

Interested candidates are expected to contact Jan [janhrcek@gmail.com] with brief motivation letter and CV as soon as possible. Full application should in addition include contact details for three references. Review of the applications will begin on 19th August 2022 and will continue until the position is filled.

The salary of 60.000CZK/month gross + benefits more than comfortably covers living expenses in Ceske Budejovice and international holiday travel, but is negotiable. Starting date is flexible, but earlier starting date is preferred. The working language is English and applicants from all countries are eligible.

Jan Hrcek <janhrcek@gmail.com>

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EarlhamInst EvolutionWheatPathogens

Postdoctoral Research Scientist (Genomics)

Applications are invited for a Postdoctoral Research Scientist to join the Laboratory of Prof Anthony Hall in the Organism and Ecosystems Programme at the Earlham Institute, based in Norwich, UK.

Background:

The Postdoctoral Research Scientist will join Designing Future Wheat; a cross-institutional BBSRC programme aiming to ensure the delivery of robust wheat crops to support a growing population. Under the supervision of Anthony Hall and Mark McMullan, the candidate will use large genomics-based data sets to address fundamental questions in the evolution of plant pathogens to advance crop science.

The project is a collaboration between the Earlham Institute and Rothamsted Research on Take-all fungus evolution, resistance, and biocontrol with Kim Hammond Kosack. The project will use state-of-the-art approaches for pan- and whole genome comparisons of 20 fungal genomes along with population genetics techniques to investigate genetic variation across hundreds of re-sequenced genomes. The analysis of these genomes is initially to address fundamental questions on the evolution of wheat pathogens and questions on their evolution usingwild and agricultural representatives with an aim to develop analysis pipelines for the community for species agnostic analyses.

The role:

The Postdoctoral Research Scientist will join an exciting project in conjunction with the Hall group to analyse fungal wheat pathogen genomes. We are looking for a driven candidate to make a change in providing solutions to agricultural problems through coding and implementation of new software.

This role will be responsible for the design, implementation, and deployment of software pipelines for the integration of the fungal genomic and genetic data available for wheat and related species to build a toolbox for population analyses for fungal and wheat genomes.

The candidate will work independently, with other group members and national and international collaborators to develop computational tools and pipelines to analyse these large datasets. They will play an active part in EI's collaborative wheat genomics efforts aimed at advancing wheat research through data integration and enhancing communication between bioinformaticians, scientists and breeders. The candidate willwork closely with the Grassroots Genomics, 10 plus wheat genome project, Ensembl Plants and other collaborative wheat projects.

The ideal candidate:

The successful candidate will be educated toPhD level or possess equivalent experience of working in molecular or computational biology, with an interest in pan-and/or population genomics. Candidates will need to communicate a deep understanding of bioinformatics tools and molecular biology/computational methods. They will need to show knowledge of good practice principles for software engineering and have a proven track record in the use of programming languages (e.g., Python, R, Bash). Good communication skills are essential as is the ability to work well as part of a team.

Additional information:

Salary on appointment will be within the range 33,050 to 40,750 perannum depending on qualifications and experience. This is a full-time post for a contract of 36 months.

Interviews will be held on 2nd September 2022.

For further information and details of how to apply, please visit our website http://jobs.earlham.ac.uk/ or contact the Human Resources team on 01603 450462 or nbi.recruitment@nbi.ac.uk quoting reference 1004309.

As a Disability Confident employer, we guarantee to offer an interview to all disabled applicants who meet the essential criteria for this vacancy.

The closing date for applications will be23rd August 2022.

Kind regards,

Naomi Baxter HR Advisor (Recruitment) Human Resources

NBI Partnership, Norwich Research Park, Colney, Nor-

wich, NR4 7UH

Email: naomi.baxter@nbi.ac.uk

Tel: 01603 450462 or Ext 2462

The NBI Partnership Ltd provides non-scientific services to the John Innes Centre, The Sainsbury Laboratory, the Earlham Institute and the Quadram InstituteBioscience

"nbi recruitment (NBI)" <nbi.recruitment@nbi.ac.uk>

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EmoryU ComputationalBiologist

This position is for a joint post-doctoral appointment with Dr. Lance Waller (Rollins School of Public Health) and Dr. John Lindo (Lindo Ancient DNA Lab) at Emory University in Atlanta, GA. We are seeking a broadly trained computational biologist who is familiar with population genetics, geographic information systems and spatial statistics. The position is for a one-year term and will involve Ancient DNA projects and epidemiological modeling. Working remotely will be considered for exceptional applicants.

Preferred start date is September 1, 2022.

Salary: $54,840 (NIH Postdoc 0), benefits eligible

Please contact Dr. Waller (lwaller@emory.edu) and/or Dr. Lindo (john.lindo@emory.edu, www.LindoAncientDNA.com) for additional information.

Please apply via the following Interfolio link: http://-apply.interfolio.com/109538 Required application documents include research statement, CV, and list of three references with contact information.

Equal Employment Opportunity Statement

Emory University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Georgia State laws, regulations, and executive orders regarding non-discrimination and affirmative action. Emory University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Students, faculty, and staff are assured of participation in University programs and in use of facilities without such discrimination. The University also complies with all applicable federal and Georgia statutes and regulations prohibiting unlawful discrimination. All members of the student body, faculty, and staff are expected to assist in making this policy valid in fact. Any inquiries regarding this policy should be directed to the Emory University Office of Equity and Inclusion, 201 Dowman Drive, Administration Bldg., Suite 305, Atlanta, GA 30322. Telephone 404/727-9867 (V) 404/712-2049 (TDD).

"Lindo, John" <john.lindo@emory.edu>

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FloridaIntlU TardigradeEvolutionTranscriptomics

FloridaIntlU: TardigradeTranscriptomics

The Department of Biology (https://case.fiu.edu/-biology/expertise/index.html) at Florida International University is seeking a highly motivated Postdoctoral Research Associate with a strong background in transcriptomics. The successful candidate will assist with NSF funded research (see grant # 2225683) aimed at understanding how changes in gene expression associated with extreme desiccation resistance in various limnoterrestrial tardigrade species are affected by changes in gene expression of their host moss or lichen species and vice versa as they concomitantly enter a desiccation resistant state. The candidate should have 1) benchtop experience working with RNA and 2) bioinformatic experience such as de novo transcriptome (or genome) assembly and analysis of population level differences in gene expression (or a willingness and ability to learn). Experience with both long and short read sequencing is a plus, as the candidate will, in part, be responsible for producing and assembling several transcriptomes combining data from Oxford Nanopore, PacBio and Illumina platforms. The successful candidate could also be involved in desiccation experiments, field data collection and analysis of data from populations of tardigrades across the eastern United States and broader as well as outreach programs. Pienaar lab members benefit from sharing lab resources and discussion groups with Dr. Janna Fierst???s lab members, who specialize in computational biology, cutting-edge ???omics??? techniques and experimental evolution to answer evolutionary questions using the model organism C. elegans and its relatives. We are also a lab highly invested in inte-

grative and collaborative biology, developing and using phylogenetic comparative methods, population genetics, phenotypic and genomic data analysis and proteomic tools.

The minimum qualification for this position is a Ph.D. in the Biological Sciences.

Qualified candidates are encouraged to apply to Job Opening ID 527272 at https://facultycareers.fiu.edu/ and attach a cover letter, curriculum vitae and statement of research philosophy. Candidates will be requested to provide names and contact information for at least 3 references (more are welcome) who will be contacted as determined by the search committee. Applications will be accepted until the position is filled.

Jason Pienaar <jpienaar@fiu.edu>

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FreieU Berlin BacterialEvolutionaryDemography

We are a lab working at the interface between evolutionary biology, population biology, microbiology, molecular biology, and biophysics and look for a post-doc candidate at the Freie Universität Berlin. The aim of the group is to understand stochastic, and adaptive influences on population dynamics in variable environments. We seek candidates that are interested in interdisciplinary work that combines highly automated single-cell microfluidic experiments on bacteria with evolutionary dynamics. We quantify gene expression dynamics at the single cell level and scale processes to population level by mathematical modelling.

Candidates should show strong interested in cross-disciplinary work and ideally have a background in evolutionary biology, quantitative ecology, systems biology, biophysics, biomathematics, or similar fields. Strong quantitative/statistical skills or molecular lab skills, programming experiences, and excellent command of English are expected.

Experiences in microfluidics/microscopy, molecular or microbial biology, modelling complex systems, or image analysis, would be an asset. We offer a nurturing work environment, in a multicultural and dynamic setting that fosters personal development and creativity.

The position is initially limited to 11.5 month with likely extension, the starting date is 15.Dec 2022 or thereafter. For further information please contact Ulrich Steiner (usteiner@zedat.fu-berlin.de).

Please apply before the 25th of July 2022 by mentioning PostDoc_AG Steiner in the subject (as single PDF) electronically to usteiner@zedat.fu-berlin.de. The official post is only available in German under

https://www.fu-berlin.de/universitaet/beruf-karriere/-jobs/wiss/21_fb-biologie-chemie-pharmazie/BC-PostDoc_AG-Steiner.html Some related publications: Two stochastic processes shape diverse senescence patterns in a singleâorganism https://doi.org/10.1111/-evo.13708 Single-cell phenotypic characteristics of tolerance under recurring antibiotic exposure in Escherichia coli bioRxiv2021.05.26.445729; doi: https://doi.org/10.1101/2021.05.26.445729 Dr. Ulrich Steiner (he/him) Heisenbergfellow Freie Universität Berlin Institute of Biology Königin-Luise-Str. 1-3 14195 Berlin

Phone: +49 30 83872559 https://sites.google.com/site/-steinerbiodemographylab/home "usteiner@zedat.fu-berlin.de" <usteiner@zedat.fu-berlin.de>

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Krakow PDF PhD Biodiversity

Postdoc and PhD student offer

The main questions to be addressed in the project The aim of this project is to verify which strategy land sparing or land sharing is better for shaping dynamics of food web' biodiversity in regions under pressure of varying risk of alien species invasion.

This project links basic ecology with economics

What will you do? this topic will require following activities and duties: - systematic review and metaanalysis - advanced spatial and statistical analyses - participating in data collection in field on birds, pollinators, spiders, ants * most of such data will be collected by field assistants, PhD student and the PI * extra money secured in this project to cover costs of travels in the field and help of field assistants - leading training workshops teaching advanced statistics and modelling relevant to project tasks for all members of the group. - building mathematical models important in the project (land

sharing/sparing, food webs and the economy). *with help provided from qualified economist - advanced GIS analyses - writing your own manuscripts - you will be encouraged to develop and work on your scientific ideas as side projects - you will be encouraged to write your own research grant

Your qualifications: - excellent written and spoken English (certificate or leading author in at least 5 publications in English or at least 2 year experience as postdoc in any English speaking country) - proven by publication record ability to write and publish articles in quality, ideally, medium high impact peer-reviewed scientific journals (IF equal or higher than 4, as it would be still early career scientist up to 7 years after completing PHD) - proven by publications ability to perform advanced statistical analyses - experience in advanced GIS analyses - proven by publications or education experience in mathematical modelling - any teaching record would be much appreciated - any experience in talking or writing about science to public would be much appreciated - basic knowledge about economy - knowledge in land sharing/land sparing models - knowledge in Species Distribution Models

Work conditions

Where: Polish Academy of Sciences, Institute of Nature Conservation, Cracow, Salary for postdoc: total amount of 10000 PLN/month (approx. 6500 netto) - 3 years, Scholarship for PhD student: 5000PLN (approx. 4000 netto) for 4 years. opportunity to apply for your own research grant affiliated with the same institute during the project and later after the project is finished Extras: Financial bonuses for publications in JCR journals Starting date: 1 October 2022 International collaboration: 1 week visit in Australia (prof. Hugh Possingham's Lab) 1 week visit in China (prof. Johannes Knops Lab) Conferences: 1 international conference in Oceania or North America - postdoc 2 conferences- PhD student

Professional development: advancing skills in: supervising PhD student own research grant writing publishing in high impact journals communication skills & soft skills development advanced stats and data visualization

Work environment: you will be part of a collaborative, friendly, dynamic, diverse research group that also appreciate work-life balance. We value good communication, collaboration, stress-free problem solving, supporting the environment and individual talents. - flexible working hours adapted to the work mode and effectiveness of team members - we value our own ideas, including the interdisciplinary, even weird ones!

Fun: lab retreats etc.

Project in collaboration with prof. Hugh Possingham from University of Queensland, Brisbane, Australia https://scholar.google.com.au/citations?user=-lSYOB3cAAAAJ&hl=en prof. Johannes Knops from Xi'an Jiaotong Liverpool University in Suzhou, Jiangsu, China. https://scholar.google.com/citations?user=-wQzqO0MAAAAJ&hl=en Deadline: 19 August 2022

For more details contact head of the project: Magdalena Lenda, PhD: Magdalena.lenda1@gmail.com

Magdalena Lidia Lenda <magdalena.lenda1@gmail.com>

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LilleU France HaploDiploidsModelling

2-year postdoctoral position in "Population Genetics Modelling" with Christelle Fraïsse and Himani Sachdeva.

Start date: October 2022 (preferred but negotiable). Applications are welcome from now on until the position is filled.

Locations: Evolution, Ecology & Paleontology lab, Lille University (France).

https://eep.univ-lille.fr/en/presentation-english/ The EEP lab at Lille University conducts basic research on the origin and evolution of biodiversity in genomics, ecology and palaeontology, plants being the lab's historical model system. It hosts a total of ca. 50 researchers & technicians and 25 PhD students & PostDocs. Lille is a vibrant university city located in the North of France, less than 1h30 from Paris, Brussels and London.

Multiple stays in the Biomath Department, Vienna University (Austria). https://www.mabs.at/ The Biomath department at Vienna Univ works on mathematical and computational analysis of genetic processes. It is located in Vienna, a leading centre for evolutionary biology with the dynamic 'EvolVienna' community, and one of the most pleasant cities in the world.

Salary: Monthly net salary is 2,238 to 3,190 euros, according to experience. The contract includes health insurance and 44 days of annual leave.

Context: ERC project "BryoFit" (2022-2027) led by Christelle Fraïsse. Selection efficacy at intraspecific and interspecific scales: insights from haplo-diplontic plants. https://sites.google.com/view/cfraisserios/home Fac-

tors influencing the efficacy of natural selection, particularly how the dominance level of selected mutations interacts with the ploidy level of organisms, remain poorly understood. A key prediction is that recessivity should reduce selection efficacy in diploids but not haploids. However, this is challenging to test directly in species with a diploid-dominant life cycle. An under-explored phylogenetic clade ideal for studying this question is Bryophytes. Their life cycles are characterised by alternating between a long haploid phase (gametophyte) and a short diploid phase (sporophyte). The relative lengths of the haploid and diploid phases can be appreciably different across different species, making them ideal for comparative analysis.

Project: With that global aim, the post-doctoral project will evaluate how the relative lengths of the haploid and diploid phases in the life cycle of haplo-diploid organisms affect the efficacy of selection against hybridisation between species. The successful candidate will develop population genetics models that include selection against multiple genetic incompatibilities with arbitrary dominance under different types of life cycles. The model will be studied using both mathematical analyses and computer simulations.

The model can be extended to include: i) spatial structure, ii) different kinds of genetic incompatibilities, and iii) sex chromosomes. The exact project plan will be adjusted based on the background and interest of the candidate. Moreover, the candidate is encouraged to develop their own ideas within the project.

Profile: The candidate must hold a doctoral degree and have a strong background in population genetics modelling, either as a trained biologist with quantitative skills or a trained mathematician familiar with population genetics. The ideal candidate should be motivated, have good communication skills, and be willing to work independently as well as part of collaborative projects.

Prior experience in any of the following areas will be an advantage: i) mathematical modelling of evolutionary processes. ii) simulations (e.g. SLiM, msprime). iii) programming skills (e.g. R, Python, bash, C). iv) experience with high-performance computing (e.g. slurm).

How to apply: i) motivation letter describing research interests, relevant experience and interest in the position (max. two pages). ii) CV, including a list of publications. iii) copies of academic diplomas. iv) names and email addresses of at least two referees.

All applications must be sent to Christelle Fraïsse (christelle.fraisse@univ-lille.fr) and Himani Sachdeva (himani.sachdeva@univie.ac.at) by email.

Christelle Fraisse <christelle.fraisse@univ-lille.fr>

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LundU Sweden EvolutionaryGenomics

3-year postdoc in Evolutionary Genomics

Subject description The research group of Dr. Feiner (http://feiner-uller-group.se/) is recruiting a researcher in evolutionary genomics. The position is fully-funded by a Starting Grant from the European Research Council (ERC). The project aims to reveal the genomic basis of adaptive diversification and parallel evolution of a suite of exaggerated colors, morphologies, and behaviors - a syndrome - in wall lizards (genus Podarcis; Yang, Feiner et al., 2021, Nature Communications). The successful applicant will use existing and collect new whole-genome re-sequencing data from a range of wild lizard populations to unravel signatures of parallel evolution in a comparative context. The exact project plan will be adjusted based on the background and interest of the applicant. The starting date is negotiable and funding is available for three years.

Work duties The main duties involved in a post-doctoral position is to conduct research. Teaching may also be included, but up to no more than 20% of working hours. The position shall include the opportunity for three weeks of training in higher education teaching and learning. Detailed description of the work duties are: -Active participation in the scientific design of the project -Carrying out basic molecular biology -Participation in field work -Generation and analysis of sequencing datasets (whole-genome re-sequencing) -Dissemination of the acquired insights, including writing of scientific publications

Qualification requirements Appointment to a post-doctoral position requires that the applicant has a PhD, or an international degree deemed equivalent to a PhD, within the subject of the position, completed no more than three years before the date of employment decision. Under special circumstances, the doctoral degree can have been completed earlier. Additional requirements: -Very good oral and written proficiency in English -Expertise in the analyses of whole-genome datasets -Programming skills -Background in herpetology is advantageous

Assessment criteria and other qualifications This is a ca-

reer development position primarily focused on research. The position is intended as an initial step in a career, and the assessment of the applicants will primarily be based on their research qualifications and potential as researchers. Particular emphasis will be placed on research skills within the subject. For appointments to a post-doctoral position, the following shall form the assessment criteria: -Teaching skills -Fulfilment of qualification requirements -Documented ability to develop and complete high-quality research -High intellectual capacity and problem-solving ability -Technical and analytical know-how, organization skills -Enthusiasm, dedication and an ability to work both independently and in a team -Consideration will also be given to good collaborative skills, drive and independence, and how the applicant's experience and skills complement and strengthen ongoing research within the department, and how they stand to contribute to its future development.

Terms of employment This is a full-time, fixed-term employment of a maximum of three years. The period of employment is determined in accordance with the agreement "Avtal om tidsbegränsad anställning som postdoktor" ("Agreement on fixed-term employment as a postdoctoral fellow") between Lund University, SACO-S and OFR/S, dated 1st February 2022. Informal inquiries before applying are welcome (nathalie.feiner@biol.lu.se).

Instructions on how to apply Applications should contain: -Motivation letter describing past research and future research interests (max. 2 pages) -Résumé/CV, including a list of publications -Names, relation to and contact information of 2 professional references -Copy of the doctoral degree certificate, and other certificates/grades that you wish to be considered

More information an how to apply can be found here: https://lu.varbi.com/en/what:job/jobID:529589/-type:job/where:4/apply:1 Deadline for application: 01 Sep 2022

Nathalie Feiner nathalie.feiner@biol.lu.se

Nathalie Feiner <nathalie.feiner@biol.lu.se>

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Madrid Fellowship MicrobeEvolution

A 2-year, fully-funded fellowship opportunity is open to postdocs of any nationality to conduct research in the Evolutionary Systems Genetics of Microbes Lab (short.upm.es/EvolSysGen) on the topic "Evolution-proof interventions to fend off bacterial pathogens". The successful candidate will join a multicultural research team focused on understanding evolutionary principles of microbial evolution (see link above). She/he will employ a combination of cutting-edge experimental and computational approaches to find ways to anticipate and prevent the evolution of bacterial pathogens. The position is funded within the Maria Zambrano Fellowship call by the Polytechnic University of Madrid. Starting date January 1st 2023.

Eligibility:

- At least 2 years of postdoctoral experience at the deadline date (25 July). - Currently hired by a non-Spanish research institution at the deadline date (25 July). - Demonstrable experience in genetic engineering of bacteria. Bioinformatics expertise will considered a plus. - At least 3 lead author publications in relevant journals from the fields of microbiology, genetics or evolution.

Interested candidates please send a single PDF file with a cover letter and a CV including publication list to a.couce@upm.es. Application deadline is July 25th and therefore early applications are strongly encouraged. Candidates short-listed for interview will be additionally requested up to two recommendation letters. IMPORTANT: Please include the word "EvolProofPhD" in the subject line.

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

phone: +34 910679195 | website: short.upm.es/EvolSysGen

A Couce <a.couce@upm.es>

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OldDominionU Virginia CoralGenomics

Hi All,

Note this is an open search (i.e., no internal candidates) and non-coral folks with genomics expertise are welcome to apply. Feel free to contact me directly if you are interested and want more information.

Post-doctoral position in Coral Genomics

The Barshis Lab of evolutionary ecophysiology (sites.wp.odu.edu/barshis-lab) in the Department of Biological Sciences at Old Dominion University, an " R1-very high research activity" state university in Virginia, USA, has a Post-Doctoral Research Associate position available in coral population genomics. This position is supported by a Paul M. Angell Family Foundation award to conduct a Genome Wide Association Study (GWAS) to investigate genomic signatures of coral thermal tolerance across the reefs of American Samoa. Applicants must have a PhD in biology, marine science, or a closely related field at the time of employment. A strong background in molecular biology, genomics, bioinformatics, and experience with genotyping by sequencing approaches (e.g., RADseq and/or low coverage Whole Genome Sequencing) is strongly preferred. The successful candidate will be expected to travel to field sites 1-2 times/year for 3-4 weeks at a time to conduct field and laboratory work. Competitive applicants will be comfortable coordinating and conducting research in the field; expertise in bioinformatics, experience with manipulative coral stress experiments, AAUS Scientific Diver certification, and multiple first-author publications are also desired. The selected candidate will have the opportunity to interact with a broad team of collaborating researchers (https://www.odu.edu/sci/news/-2021/12/climate_change_impac). The appointment is a one-year position beginning Fall 2022, with the potential for a one-year renewal. Salary is commensurate with experience. Application deadline is August 15th, 2022.

Highly motivated and interested candidates are encouraged to apply by uploading a CV, a cover letter/statement summarizing your interest in the position, including prior research and future career goals (2-page maximum), copies of up to two primary research papers (first author preferred), and the names and contact information for at least three references to the application website https://hera.odurf.odu.edu/careers//-Careers.aspx?req=22-037&type=JOBDESCR .Review of applications will begin following the application deadline. Best Regards, dan

Daniel Barshis, Ph.D. Associate Professor Graduate Program Director, PhD in Ecological Sciences Department of Biological Sciences Old Dominion University Mills Godwin Building 308 Norfolk, VA 23529 Office: 757-683-3614 Lab: 757-683-5755 Web: sites.wp.odu.edu/barshis-lab/ Pronouns: he/him/his - what's this? < https://-odu.edu/safespace/pronouns-and-why-they-matter >

Schedule an online meeting with me < https://outlook.office365.com/owa/calendar/-DrDanBarshis@olddominion.onmicrosoft.com/-bookings/ >

Dan Barshis <barshis@gmail.com>

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PennStateU MicrobialEvolutionAgriculture

Postdoctoral Scholar: Microbial Evolution in Agriculture at Penn State University

The Burghardt Lab in the Department of Plant Science is seeking a Postdoctoral Scholar to work on the functional genomics and evolutionary ecology of plant-microbe interactions (https://lianaburghardtlab.com). The postdoc will contribute to a funded NIFA grant, "Laying the Groundwork to Breed for Mutualisms: Tracking the Long-Term Adaptation of Nitrogen-Fixing Rhizobia to Alfalfa in Agricultural Fields." This project aims to 1) translate genome sequencing methodologies to the field to measure seasonal and alfalfa-mediated evolutionary processes in established varietal trials, 2) test a novel evolution-informed phenotyping pipeline to measure the ability of alfalfa varieties to reward helpful strains, 3) identify rhizobia candidate genes underlying adaptation to alfalfa nodules in agricultural fields, competitive success across environmental variation, and nitrogen-fixation benefits for plants. In addition, the postdoc will be free to develop and pursue novel research interests and directions consistent with the lab theme of understanding plant-microbe-climate interactions in natural and managed landscapes. The postdoc will be provided mentorship and professional development opportunities tailored to their career goals.

Applicants must have a Ph.D. or equivalent doctorate in Biology, Plant Science, Agronomy, Microbiology, Genetics, Ecology and Evolution, or related field(s). Before the effective date of hire, applicants must be able to provide evidence that all requirements have been met for completion of the Ph.D. and pass standard background checks. This position requires excellent communication skills and experience implementing bioinformatic pipelines and performing statistical analysis. Preferred candidates will additionally have some of the following strengths: - ability to conduct lab or field experiments with plants or microbes; - experience using bioinformatic pipelines to analyze whole-genome sequence data; - perform statistical analysis, including generalized lin-

ear models & multivariate statistics; - a background in functional, population, quantitative, or ecological genetics; - evidence of prior success in working in diverse teams and independently; - a demonstrated interest in mentoring students and outreach; - and a strong track record of peer-reviewed publication.

Initially, this fixed-term appointment is funded for one year from the date of hire with the option of reappointment for additional years conditional on satisfactory performance and the availability of funds. This position includes a competitive salary and generous benefits. The Burghardt Lab is located at the Penn State University Park Campus in Central Pennsylvania, a walkable/bikeable community in the Allegheny Mountains. The geographic setting is one of the agricultural valleys situated between tree-covered ridges with abundant opportunities for outdoor recreation.

Details: Application review will begin immediately, and the position will remain open until a suitable candidate is identified. Interested applicants should apply through the official PSU Workday System. When prompted for a CV, please instead upload a single pdf titled: "lastname_Postdoc_BurghardtLab.pdf" that includes (i) a cover letter detailing scientific interests, qualifications, future goals, and preferred start date, (ii) a CV, (iii) contact information for three references, and (iv) pdfs of 1-2 publications. Please also send this compiled pdf in an email directly to Dr. Liana Burghardt (liana.burghardt@psu.edu). Please get in touch with Liana for additional information about this position.

Job Requisition # on PSU jobs: REQ_0000029362 Job posting link: https://psu.wd1.myworkdayjobs.com/-PSU_Academic/job/University-Park-Campus/-Postdoctoral-Scholar–Microbial-Evolution-in-Agriculture_REQ_0000029362-2 Liana Twardosz Burghardt she/her/hers Assistant Professor Dorothy Foehr Huck & J. Lloyd Huck Early Career Chair Department of Plant Science Pennsylvania State University lianaburghardtlab.com

"Burghardt, Liana T" <liana.burghardt@psu.edu>

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PurdueU FishGenomics

A postdoctoral position is available in the laboratory of Mark Christie at Purdue University (https://-/www.bio.purdue.edu/lab/christie/) to address several evolutionary and genomic questions in freshwater and anadromous fishes. Data for a variety of projects are already available. Potential projects include identifying the genetic basis for local adaptation in Lake Michigan yellow perch (*Perca flavescens*) in both space and time, where the space component would examine connections within the main basin and the time component would focus on identifying genomic responses to fisheries induced evolution. A second project would focus on identifying candidate genes associated with hatchery domestication in Alaska pink salmon (*Oncorhynchus gorbuscha*). Possibilities also exist for additional projects including: examining the genetic basis for the incipient resistance of invasive sea lamprey (*Petromyzon marinus*) to a widely used chemical control, exploring the genomic basis of evolutionary rescue, and developing novel methods to identify loci under selection.

Genome-wide sequencing data will play a central role in these projects; thus, the ideal candidate will have a strong background in computational analyses and bioinformatics. Proficiency with Unix/Linux (bash shell) command line and one or more additional languages (R/perl/python etc.) will be highly regarded. Familiarity with R and analytical methods in population genetics will also be viewed favorably. The candidate is expected to be able to work both collaboratively and independently. The position is to be filled as soon as possible, though there is flexibility with respect to start date.

Applicants must have a PhD before the start of the position. Applicants should submit 1. a cover letter that describes your research background and interests and, 2. a full CV. Please submit all application materials to christ99@purdue.edu. Funding is available for two years. Review of applications will begin July 14th and continue until the position is filled. Purdue has substantial bioinformatics resources and state-of-the-art computational facilities ideal for working with high-throughput sequencing data. West Lafayette is located about 1 hour from Indianapolis and two hours from Chicago. Salary is competitive and cost of living is low. Purdue University's Department of Biological Sciences is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and

engagement.

Mark Christie <markchristie1500@gmail.com>

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QuebecCity Two EvolutionDrugResistance Jan2023

The Landry lab currently has two postdoc vacancies open on the evolution and mechanisms of antifungal resistance:

one computational (4 years) one experimental (3 years)

The selected candidates will work on projects aimed at predicting antifungal resistance from genome sequences.

These projects will include:

1)experimental work aimed at identifying, in a comprehensive manner, the molecular mechanisms of resistance using experimental evolution and deep mutational scanning

2)developing tools for predicting resistance from whole-genomes sequences of clinical isolates

3)developing experimental methods for whole-genome or target enrichment sequencing of clinical samples

The experimental candidate is expected to have a PhD in biology or a related discipline, and a solid background in biochemistry and molecular biology with at least basic skills in bioinformatics and statistics.

The computational candidate is expected to have expertise in computational genomics and have experience with machine learning or be willing to develop this expertise.

The candidates will be working with a network of collaborators across Canada so the ability to work in a team and to communicate effectively will be key to success.

Salary:$50,000 CAD/year + benefits

Starting date:January 2023 (flexible)

The Landry lab is located at the Institut de Biologie Intégrative et des Systèmes (IBIS) of Université Laval in Québec City and is part of the Quebec Network for Research on Protein Function, Engineering, and Applications (PROTEO). The Landry lab is an international team of 20+ students, postdoctoral fellows and research associates from diverse backgrounds (microbiology, biology, bioinformatics, biochemistry) addressing questions in evolutionary cell and systems biology.

The application package (1 single PDF file) should include a motivation letter demonstrating the interest of the candidate for the field and the candidate's ability to perform this type of research, reprints of the candidate's most important contributions, a CV and the contact information of three people who can provide letters of reference. The single file should be sent to:landrylaboratory@gmail.com

The position will remain open until a candidate is selected but a decision is expected to be made before the end of August 2022. Visit https://-landrylab.ibis.ulaval.ca/for more details

Landry Lab | Canada Research Chair in cellular systems and synthetic biology

Evolutionary systems biology of novelties. Gene duplication is an important force in evolution. However, it is thought to be of limited use for acquiring completely novel functions due to phylogenetic constraints, i.e. genes born from duplication have inherited several features from the ancestral copy, including biophysical constraints.

landrylab.ibis.ulaval.ca

Christian Landry <Christian.Landry@bio.ulaval.ca>

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QueenMaryU London Two PlasticityEcoEvoDevoGenomics

TWO POSTDOCTORAL RESEARCH ASSISTANTS - deadline 31 July 2022

Two postdoctoral postions are now available to work on mechanisms and evolution of seasonal plasticity in African butterflies, in Dr. Vicencio Oostra's laboratory in the School of Biological and Behavioural Sciences at Queen Mary University of London.

Apply here: https://www.qmul.ac.uk/jobs/vacancies/-items/7260.html The posts are part of an ambitious and interdisciplinary project funded by a UKRI Future Leaders Fellowship: "Testing how developmental pathways can predict evolutionary adaptation to climate change: an Eco-Devo approach". The project will test the role of plasticity in determining adaptive capacity of wild populations, in order to improve predictions of

future climate adaptation. Specifically, it aims to (1) identify and characterise environment-sensing pathways underpinning seasonal plasticity; (2) test how these pathways and loci vary and evolve across populations and species in different habitats; and (3) analyse how adaptive capacity is stuctured by climatic and ecological factors.

We combine approaches from evo-devo, genomics, and ecology with Bicyclus butterflies, a diverse genus of African butterflies that have repeatedly evolved seasonal plasticity in wing pattern, life history and behaviour. The postdoc positions will use methods from these 3 areas: (a) experimental approaches from evo-devo and quantitative genetics (e.g. phenotypic assays, dissections, RNA-seq, ChIP-seq, CRISPR/Cas9) (b) computational genomics (gene regulatory network inference from RNA-seq / ChIP-seq / ATAC-seq data, population genomics, comparative genomics, PacBio & HiC based genome assembly) (c) natural history and ecology of butterflies (incl. fieldwork in Cameroon, Ghana, Kenya, Malawi, and/or South Africa).

We seek two postdoctoral colleagues with complementary skills who are curious, keen to collaborate, and highly self-motivated. Applicants with a PhD (or close to completion) in evolutionary biology or a related field and expertise in at least one of the above 3 methodological areas are encouraged to apply, in particular those with strong quantitative skills. Each team member will take ownership of particular aspects of the research programme, while supporting colleagues with other aspects. There is opportunity to learn new skills, and to develop the research in new directions. The project benefits from a large collection of existing samples and genomic data.

The posts are full-time (35 hours) and available for 24 months or until 14th August 2024 (with a possibility of an extension). The start date is 15th August 2022 or as soon as possible thereafter. Salary: 33,824 - 38,655 (Grade 4, inclusive of London allowance).

You will join a recently started, well-funded research group led by Vicencio Oostra with links to researchers across Europe, Africa and Latin America. The lab is embedded in the vibrant School of Biological and Behavioural Sciences at Queen Mary University of London. You will have the chance to contribute to supervision of undergraduate and graduate students.

We value diversity and encourage candidates with unique backgrounds and skills to apply, especially candidates from underrepresented backgrounds. Applications are open for all nationalities and Queen Mary offers visa sponsorship to successful candidates.

Apply here: https://www.qmul.ac.uk/jobs/vacancies/-items/7260.html Closing date 31 July 2022. For informal inquiries or a chat please drop me an email at v.oostra@qmul.ac.uk Further details https://www.vicencio.eu/join-the-lab/ Vicencio Oostra <v.oostra@qmul.ac.uk>

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Rennes France EcoEvolutionaryModelling

Postdoctoral position in bioenergetic and eco-evolutionary modelling (36 months)

Summary: A 36 months postdoctoral position is available in the fields of bioenergetic modelling and eco-evolutionary modelling of aquatic species. The objective is to propose a projection of fish responses to climate change and related extreme events (heat waves and associated hypoxic events) from the individual to the population scale and from the physiological to the evolutionary level. This project is part of the ANR FishNess project (Fish robustNess: a key element of population vulnerability and sustainable aquaculture) involving teams from DECOD and MARBEC, two major French laboratories in aquatic ecology. We seek a specialist in bioenergetic modelling (e.g. Dynamic Energy Budget model - DEB) and/or in eco-evolutionary modelling with good theoretical and programming skills. Knowledge in ecophysiology and/or quantitative genetics would be appreciated but is not mandatory.

Context: Intraspecific diversity is a neglected aspect of biodiversity, although it has been shown to play a key role in supporting essential ecological functions (Des Roches et al., 2018). Considered as the “hidden facet of biodiversity”, there is a need to better describe how anthropogenic pressures will impact intra-specific variability including in marine species. FishNess investigates the hypothesis that individual robustness to environmental conditions is a key determinant of the vulnerability of wild fish populations to global change and fishing, and of the long-term sustainability of fish farming. The project has successfully started in early 2022 with the production of different European sea bass populations reared in various thermic conditions in the Ifremer Palavas-Les-Flots experimental facilities. Each population is periodically monitored for individual growth and response to fasting events and genotyped (Griot et al.,

2021). This will produce a unique and unprecedented dataset allowing for the precise quantification of the intra-specific variability of resources allocations, and associated genetic components. In addition, capacities to cope with extreme climate-related challenges will be explored for a subset of individuals in each condition. Intra- and inter-population covariance between resource allocation and coping abilities will also be investigated. Finally, all available information on this variability will be incorporated in an eco-evolutionary population model in order to assess the long-term vulnerability of fish populations to global change, as well as the sustainability of human activities they support.

Description of the position: The postdoctoral researcher will investigate the inter-individual variability in a bioenergetic DEB model parameterized for every individual considered, using all information available at the individual level (body mass, length, fasting response, gonads' weight, oxygen consumption, etc...). Local adaptation of each population to each thermic condition will be evaluated as well as its genetic determinants. The postdoctoral researcher will then use the model parameterized for each individual to simulate their responses to extreme events (heat-waves and hypoxia), and categorize them in terms of robustness. The limited capacities of the DEB model to correctly account for effects related to heat-waves and hypoxic events will be highlighted. The postdoctoral researcher will be in charge of developing an updated DEB-model accounting for these and parameterized for future projects. Finally, he/she will upscale the individual DEB model to the population level and multiple generations, to project the eco-evolutionary dynamics of populations under anthropogenic pressures. The postdoctoral researcher will write publications in international scientific journals. She/he will communicate her/his results with partners of the FishNess project and will apply for oral communications in international conferences.

Working environment: The postdoctoral researcher will be in close interaction with 3 researchers (Bruno Ernande, Olivier Maury and Bastien Sadoul) having extensive background in fish bioenergetic and eco-evolutionary modelling from the individual to the population level (e.g. Marty et al., 2015; Sadoul et al., 2019, 2020, 2021; Maury et al., 2019; Maury and Poggiale, 2013). The position is located in Institut Agro in Rennes, France (within the DECOD laboratory), but travelling expenses are available to organize multiple stays in Montpellier or Sète (within the MARBEC laboratory) for visiting B. Ernande or O. Maury, and participating to International Conferences. Within DECOD, the successful candidate will be in close interaction with world recognized researchers in aquatic ecology, and conservation, fisheries sciences and ecosystemic modelling. Duration and salary: The successful applicant will be hired

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Seattle IPHC EpigeneticClockPacificHalibut

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 September 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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SmithC MicroEukGenomes

Postdoctoral Positions: Bioinformatic and single-cell 'omics approaches for studying genome evolution in microbial eukaryotes

The Department of Biological Sciences at Smith College invites applications for two benefits eligible postdoctoral positions, focusing on genome evolution in microeukaryotes (aka protists), to begin on or after August 1, 2022. The bulk of the work will focus on bioinformatic analyses of data generated in the lab from foraminifera and ciliates. The initial appointment is for one year, with the possibility of extending for additional years. The position will be housed in Professor Laura Katz's laboratory in the Department of Biological Sciences (https://www.science.smith.edu/katzlab/)

The aims of this project include characterizing genome architecture in poorly-studied clades and reconstructing the evolutionary history of both genes and species (i.e. species delimitation).

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on three interrelated areas: (1) characterizing evolutionary relationships among eukaryotes using single-cell 'omics' and phylogenomics; (2) exploring the evolution of germline vs somatic genomes; and (3) describing the phylogeography and biodiversity of protists in local environments (bogs, fens, coastal habitats).

Minimum qualifications include a PhD in a relevant field, knowledge of the diversity of eukaryotic microorganisms, and familiarity with basic bioinformatic tools. The ideal candidate will: 1) be a productive researcher with interests in both biodiversity and phylogenomics of microorganisms; 2) have experience identifying and isolating diverse protists; 3) have knowledge of bioinformatic and/or phylogenetic tools; 3) have excellent communication and interpersonal skills; and 4) be interested in collaborating with graduate and undergraduate students in the laboratory.

More details can be found here: https://smithcollege.wd5.myworkdayjobs.com/smithcollege/job/Smith-College/Postdoctoral-Research-Fellow_R-202200403 . Please contact Laura Katz

(lkatz@smith.edu) with any questions

Laura Katz <lkatz@smith.edu>

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StockholmKTH DogEvolutionOrigin

Postdoctoral position in studies of dog breed evolution and domestic dog origins (24 months)

SUMMARY: A 24 months postdoctoral position is available, in studies of dog breed evolution and domestic dog origins, through genomic, phylogenetic and population genetic analyses. The position is a scholarship, giving a tax free scholarship of 30,000 Euro/year (2,500 Euro/month, tax free). The position will remain open until filled. Location: KTH Royal Institute of Technology, at Science for Life Laboratory. See KTH full advertisement at (https://www.kth.se/en/om/work-at-kth/stipendier/postdoc-scholarship-in-genomic-and-phylogenetic-studies-of-dog-breed-evolution-and-domestic-dog-origins-1.1181345)

THE PROJECT: The research group has a long record of genomic, phylogenetic and population genetic studies of domestic dogs (https://www.kth.se/gte/research/-evolutionary-biology-and-forensics-1.783359). Currently, we are focusing on two projects, based on two unique and exciting datasets, for which we seek a postdoctoral researcher:(i) We are studying the genomic effects of the creation of the modern dog breeds. By analysis of DNA from 100-year-old dog skins, obtained from traditional clothes from northern Sweden, we can compare the genomics of the original non-breed population 100 years ago with that of the modern Lapphund and Elkhound breeds. Hereby, we obtain exact measurements of the genetic difference between the historical and the modern populations, concerning, e.g., amount of genetic diversity, level of inbreeding, heterozygosity and frequency of deleterious alleles. Based on this, we can draw conclusions about how the breeding process has affected the genetic status of the modern dog breeds. (ii) We are studying the first origin of the domestic dog. Together with collaborators, we have access to a unique collection of DNA from modern dog populations from across the world. Based on this, we aim to analyze nuclear and mitochondrial genomes, to describe phylogeny, demography and phylogenomics among dogs worldwide, in order to describe the origins, evolution and early history of the domestic dog.

TRAINING AND SCHILLS REQUIRED: A doctoral degree is required. The candidate should have a strong background in population genomics and bioinformatics.

WORK ENVIRONMENT: The postdoctoral researcher will work in a research group with a long record of genomic, phylogenetic and population genetic studies of domestic dogs (https://www.kth.se/gte/research/-evolutionary-biology-and-forensics-1.783359). KTH Royal Institute of Technology in Stockholm is one of Europe's leading technical and engineering universities. The department is localized at Science for Life Laboratory (Scilifelab), which is northern Europe's largest infrastructure within biological science.

THE POSITION: The position is a scholarship, giving a tax free scholarship of 30,000 Euro/year (2,500 Euro/month, tax free).

HOW TO APPLY: Please direct applications and/or questions to Peter Savolainen (savo@kth.se). The following documents must be submitted in a PDF format: (i) a CV, (ii) a cover letter, detailing both your previous scientific work experience and your interest in this position, (iii) name and contact of two references. Please send in your application by 31st July 2022. The position starts from August 2022 (flexible start).

Informal inquiries are very welcome! Please contact savo@kth.se

Peter Savolainen, Professor Head of Dept of Gene technology, CBH KTH - Royal Institute of Technology Science for Life Laboratory, Stockholm Web: https://www.kth.se/gte/evolutionary-biology-and-forensics-1.783359 Peter Savolainen <savo@kth.se>

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StockholmU Evolution

Postdoc- and research positions available at the Department of Ecology, Environmental and Plant Sciences, Stockholm University

The positions are administrated as indefinite-term, but the projects are of 2 years. After this time, there might be a continuation if funding allows.

The positions are associated with a larger project, aiming at using filamentous fungal systems to study the underlying mechanisms and evolutionary consequences

of natural selection occuring at multiple levels in the biological hierarchy.

Specific foci of the projects can be on the rise and fate of somatic mutation in the fungal life cycle, the evolutionary interaction between selfish genetic elements and host defense, and/or the costs and benefits of intraorganismal genetic variation. The specific projects may include theoretical, experiental, population and/or comparative genomics methods, depending on the interest of the applicant.

The postdoc/researcher will be based in the Hanna Johannesson lab. Johannesson group is currently moving to Stockholm from Uppsala University, see the group-info here: https://www.iob.uu.se/research/systematic-biology/johannesson/. The working atmosphere is international with English as the working language, and the position offers plenty of opportunities for scientific exchange with both genomicists, evolutionary biologists and ecologists.

For more information about the Department, see here: https://www.su.se/department-of-ecology-environment-and-plant-sciences/about-the-department Please visit the following links to apply for the postdoc or researcher position. Here you can also see requirements for what to include in the application!

https://www.su.se/english/about-the-university/-work-at-su/available-jobs?rmpage=job&rmjob=-18417&rmlang=UK https://www.su.se/english/about-the-university/work-at-su/available-jobs?rmpage=-job&rmjob=18420&rmlang=UK Nï¿½r du har kontakt med oss pï¿½ Uppsala universitet med e-post sï¿½ innebï¿½r det att vi behandlar dina personuppgifter. Fï¿½r att lï¿½sa mer om hur vi gï¿½r det kan du lï¿½sa hï¿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 Hanna Johannesson <Hanna.Johannesson@ebc.uu.se>

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StockholmU InsectSpermEvolution

Postdoctoral Fellow in Insect Sperm Evolution at the Department of Zoology, Stockholm University

APPROACHING DEADLINE! ***Closing date for applications: 15 July 2022****

Before applying see “Qualification Requirements” below. REVISION: The previous advert indicated a 3 year postPhD limit which should have read 5 years.

The position will be held in the Department of Zoology at Stockholm University which consists of five divisions: Ecology, Ethology, Functional Zoomorphology, Population Genetics and Systematics & Evolution. The department accommodates 45’50 staff and a similar number of PhD students. The advertised postdoctoral position will be placed in the Division of Ecology at the Department of Zoology.

Project description The successful candidate will be part of an interdisciplinary research project, based at Stockholm University in the lab of Professor Rhonda Snook. The aim of the work is “The evolution of sperm cell shape and motion” in insects funded by the Human Frontiers Science Program with research partners at the University of Lincoln (UK) and Tulane University (USA). The overall aim in the Snook lab will involve 1) phylogenetic analyses addressing evolutionary diversity in sperm shape in insects, 2) assessing how intraspecific variation in sperm length impacts sperm movement and function within the female reproductive tract using molecular biology techniques and microscopy, and 3) testing the relationship between sperm length and sperm motility in the closed system of the female reproductive tract using experimental analogues of the female reproductive tract and biophysical modelling lead by consortium partners. This is an innovative and collaborative opportunity to combine diverse the fields of phylogenetic analysis, molecular biology, applied mathematics and biophysics to understand the evolution of the wide diversity of sperm shapes. For work in the Snook lab, a strong candidate will have a background in either evolutionary biology or molecular biology and a deep interest in microscopy and/or spermatogenesis. There is scope to develop parallel projects for an organized candidate.

Main responsibilities The position is 100% research within the project described above.

Qualification requirements Salary is provided as a tax-free scholarship stipend of 27500 SEK per month. Thus, only non-Swedish citizens with a doctoral degree or similar equivalent acquired in a country other than Sweden can apply. The degree must have been completed at latest before the employment decision is made, but no more than five years before the closing date. An older degree may be acceptable under special circumstances. Special reasons refer to sick leave, parental leave, elected positions in trade unions, service in the total defense,

or other similar circumstances as well as clinical attachment or service/assignments relevant to the subject area.

Terms of employment The position involves full-time employment for a year in the first instance. Following satisfactory progression, another year can be appointed. There is the possibility of extension for a third year with changing circumstances. Start date September 1, 2022 or as per agreement.

Stockholm University and the Snook lab strives to be a workplace free from discrimination and with equal opportunities for all.

Evaluation Criteria In the appointment process, special attention will be given to candidates with a strong background in either evolution or molecular biology and a willingness to learn analytical methods. Prior training in insect rearing desirable and a keen interest in microscopy and/or spermatogenesis is beneficial. It is not expected that the postdoc have prior mastery of all these elements. Given the interdisciplinary and collaborative nature of the funding, applicants should be good communicators and happy to work in an international team with biologists, biophysicists and mathematical modellers, spread across three countries, as well as work independently to solve challenging technical problems.

Contact Further information about the position can be obtained from Professor Rhonda R Snook, rhonda.snook@zoologi.su.se.

Application Apply for the position at jobs@zoologi.su.se It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the job advertisement, and that it is submitted before the deadline.

Please include the following information in your application as a combined pdf file entitled "XX application for Snook" where XX is your name. * Cover letter outlining why you are interested in, and what makes you suitable for, the position (no more than 2 pages) * Your CV ' including contact details, degrees and other completed courses, work experience and a list of publications * Contact details for 2'3 references * Copy of PhD diploma

You are welcome to apply!

Rhonda R Snook Professor EcologyDivision

Department of Zoology Stockholm University, Sweden

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Switzerland Eawag Lucern ConservationGenomics

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research, education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems.

Eawag's Departments of Fish Ecology & Evolution and Aquatic Ecology have an opening for a Postdoc in Conservation Genomics of Aquatic Ecosystems

The position, based in the groups of Philine Feulner and Alexandra Anh-Thu Weber, is funded for 2 years within the project "Establishing a framework for conservation genomics of freshwater biodiversity". The project, funded by Eawag, also includes a collaboration with Jakob Brodersen (Eawag, River Fish Ecology) and Damien Bouffard (Eawag, Aquatic Physics). Both the Fish Genomics group of Philine Feulner and the Adaptation & Conservation Genomics group of Alexandra Anh-Thu Weber focus on research questions regarding: i) the genetic basis of adaptation and speciation, ii) the influences of selection, drift, mutation, and recombination on genome evolution, and iii) the development and implementation of genomic tools for conservation purposes.

Background: Freshwater biodiversity is threatened by physical alterations of aquatic habitats for anthropogenic use, pollution, and exploitation of species. Conservation genomics is an innovative approach allowing to: i) monitor biodiversity and genetic diversity at an unprecedented resolution; ii) identify highly endangered populations, and iii) protect and possibly rescue endangered populations. However, established methods and programs are currently limited but are important to implement adequate monitoring and conservation strategies.

The project focuses on establishing a framework for conservation genomics of freshwater biodiversity using two case studies: the European grayling Thymallus thymallus and the freshwater mussel Anodonta anatina. The project aims at developing a conservation genomics framework that goes beyond monitoring and will link genomic diversity with physical water parameters, an-

thropogenic landscape use, and restoration efforts. This project aims to establish the feasibility and principles of genomic monitoring for Swiss aquatic habitats, and to provide solutions for an innovative development of biodiversity monitoring and conservation.

The candidate is expected to: i) generate and analyze next generation whole-genome population data, ii) develop reproducible bioinformatics pipelines for conservation genomics, and iii) interpret and publish the results through peer-reviewed articles and translational material dedicated to practitioners and stakeholders. There will opportunities to gain field experience in Switzerland, to develop their own research interests, and to assist in the supervision of Bachelors and Master students. Ideally, the candidate has a profound interest in Bioinformatics, Evolutionary Genomics and Conservation Biology, and has recently earned a PhD in a relevant field of evolutionary biology or bioinformatics. We particularly value interest to interact with practitioners and stakeholders in Switzerland. Excellent communication skills in English and ability to work in a team are essential.

The position is situated in the Department of Fish Ecology & Evolution. The Department is part of Eawag's Center for Ecology, Evolution & Biogeochemistry (CEEB), which is located on the shore of Lake Lucerne and is a strong nucleus of Eawag research groups aimed at integrating evolutionary biology, community ecology, and ecosystem science. The postdoc will interact with a diverse range of researchers studying community ecology, evolutionary biology, ecological genetics, ecosystem science, and applied environmental science. The Fish Genomics group is also affiliated to the Institute of Ecology and Evolution of the University of Bern, and the successful candidate will have a unique opportunity to take advantage of both these excellent academic environments. More information about ongoing projects in both groups can be found at www.eawag.ch/en/department/fishec/main-focus/fish-genomics/ and www.eawag.ch/en/aboutus/portrait/organisation/staff/profile/alexandra-anhthu-weber/show . Eawag is a modern employer and offers an excellent working environment where staff can contribute their strengths, experience and ways of thinking. We promote gender equity and are committed to staff diversity and inclusion. The compatibility of career and family is of central importance to us. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch-

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Taipei Taiwan GenomicsEukaryoticMicrobes

*Three-year postdoc positions (with possible extension) in evolutionary, regulatory and ecological genomics of eukaryotic microbes *Application open until August 31, 2022 or until positions are filled

Postdoc positions are available in the lab of Dr. Chuan Ku at the Institute of Plant and Microbial Biology, Taipei, Taiwan. Our research focuses include: 1. Evolution, life history, morphology and physiology of important microalgae (which account for nearly half of carbon fixation worldwide) 2. Genome evolution and regulation in giant viruses (which are extra large DNA viruses infecting diverse microbial eukaryotes) 3. Interactions between microalgae and other microbes in aquatic environments (for which we use an approach combining flow cytometry and single-cell omics)

Our institute is part of Academia Sinica, the national academy of Taiwan. The working language in our lab and institute is English. Knowledge in Mandarin or other Taiwanese languages is not required, but foreign researchers are encouraged to take Mandarin classes if they want. More details can be found on our lab and institute website.

Application requirements: 1. a PhD degree in biology, natural sciences or related fields 2. English writing and speaking skills 3. ability to work both independently and as part of a team 4. Experience and knowledge in genomics, bioinformatics, evolutionary biology or microbial ecology

To apply, please send an email with the subject IPMB_application_Postdoc_YourName directly to Chuan Ku, briefly describing your research interests, experience, skills, future plan, and contact details of at least two referees. A single PDF should be attached that includes your CV and relevant documents. Shortlisted candidates will be invited for an interview.

Inquiries are welcome.

Dr. Chuan Ku (assistant professor) email: chuanku@gate.sinica.edu.tw Twitter: @chuanku_ Lab website: https://chuanku-lab.github.io/kulab/ Institute website: https://ipmb.sinica.edu.tw/en Chuan Ku <chuanku@gate.sinica.edu.tw>

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TexasAMU PhylogeneticClimateModeling

Phylogenetic Climate Modeling of Sympatric Congeners and 3D Morphometrics - Postdoc Position

We are seeking a new member of our research community to work in the lab of Dr. Michelle Lawing (Texas A&M University) and in collaboration with Dr. Emília Martins (Arizona State University), Dr. Julio Rivera (Henry M. Jackson Foundation), and Dr. Jaime ZÃ¤ñiga-Vega (Universidad Nacional Autónoma de México). You would join a vibrant team of international researchers investigating the impacts of closely related spiny lizards (genus Sceloporus) on phenotypic evolution. You will be responsible for performing research tasks and helping to organize and participate in broader impacts outlined in a jointly funded NSF award titled "Inferring the impacts of closely-related species on phenotypic evolution." See the NSF grant abstract here: https://nsf.gov/awardsearch/showAward?AWD_ID=2154898. Our team includes faculty, postdocs, graduate students, undergraduate researchers, and undergraduate students participating in classroom exercises.

Tasks will include the following: (1) phylogenetic climate modeling, (2) computational simulations and sensitivity tests, (3) domestic travel to assist in CT scanning and scoring landmarks, (4) international travel to assist in fieldwork, (5) preparation of data, code, figures, tables, and text for manuscripts, (6) mentorship of undergraduate and graduate students, (7) participation in broader impacts planning (8) travel to present findings at professional conferences and (9) facilitation of collaboration through participating in small group and team meetings.

The ideal candidate would have strong interest in research topics at the intersection of ecology, evolution, and biogeography, strong interpersonal skills, proficient knowledge of coding in R, proficient knowledge of phylogenetic comparative methods, previous experience in assembling and analyzing large datasets, and previous experience with analysis of climate data. Adequate knowledge of skeletal morphology of lizards is a plus.

The candidate will subscribe to and support our commitment to Inclusion, Diversity, Equity and Accountability (IDEA).

Required Documents to Submit: Applicants should upload a single pdf, which should include: (1) Cover letter stating your interest in this position, your fit and your previous experience related to this position description, including scientific goals and interests, (2) CV, (3) Names and contact information for three persons willing to provide a recommendation.

If the description of this position sounds interesting to you, even if you do not possess all skills listed, we strongly encourage you to apply to be considered for this opportunity. For further information and to submit your application see: https://tinyurl.com/33u27xdz. We will begin reviewing applications July 15th and continue until the position is filled. The ideal start date is September 1st. It is a two-year position with adequate performance and salary is $50,000 per year with additional benefits and a budgeted annual raise.

Please contact Michelle (alawing@tamu.edu) with any questions.

_

A. Michelle Lawing, PhD (she/her/hers) Associate Professor Paleobiology, Evolution, and Climate Lab Department of Ecology and Conservation Biology College of Agriculture and Life Sciences Texas A&M University 2120 TAMU, WFES 322 College Station, TX 77843

Editorial Board, /Communications Biology/ An open access journal from Nature Research

Michelle Lawing <alawing@tamu.edu>

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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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UBordeaux MicrobiomeCancerAcrossSpecies

New 3 year-Postdoc position How does the microbiome promote or inhibit cancer development? (2022-2025)

Quick overview: ï¿½ï¿½ï¿½ * Funding: Moore Foundation ï¿½ï¿½ï¿½ï¿½ï¿½* PI: Thomas Pradeu (CNRS Research Director, ImmunoConcEpT, University of Bordeaux, France) ï¿½ï¿½ï¿½ï¿½ï¿½* Duration: 3 years, starting from the end of 2022 or the beginning of 2023 ï¿½ï¿½ï¿½ï¿½ï¿½* Location: Bordeaux, Franceï¿½ï¿½ï¿½ï¿½ * Main question of the research project: How does the microbiome influence cancer development and progression across different species?

Link:https://www.philinbiomed.org/job/postdoc-cancer-microbiome/ Best regards, Thomas Pradeu CNRS Research Director Immunology Unit ImmunoConcEpT, UMR5164, CNRS & University ofï¿½Bordeaux Stanford University CASBS Fellow (2020-2021) Team Leaderï¿½Conceptual Biology and Medicine Team Coordinator of theï¿½Institute for Philosophy in Biology and Medicineï¿½(PhilInBioMed) 146 rue Leo Saignat 33076 Bordeaux, France &ï¿½Institute for the History and Philosophy of Science and Technologyï¿½Pantheon-Sorbonne Universityï¿½13 rue du Four,ï¿½75006 Paris, France

Pradeu Thomas <tpradeu@yahoo.fr>

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UCalifornia Davis PopulationGenomics

Postdoctoral Research Fellow Position Gene Drive Population Genomics University of California, Davis

Description: The Vector Genetics Lab (VGL) at the University of California, Davis has a post-doctoral position available for a highly motivated candidate with a background in population genetics/genomics. The VGL is dedicated to research and training in the areas of population & molecular genetics, genomics and bioinformatics of insect vectors of human and animal disease. We have developed a program aimed at expanding knowledge that may be applied to improving control of disease vectors and that also addresses problems of interest in the field of evolutionary genetics. See details at: https://vectorgeneticslab.ucdavis.edu/ Ongoing projects include work on the following systems: - Populations of Anopheles malaria mosquitoes on islands off the coast of Africa - Populations of Plasmodium falciparum in Africa - Malaria elimination based on Anopheles vectors engineered with Plasmodium- blocking transgenes - Autonomous CRISPR Cas9-based gene drive in Anopheles mosquitoes

Ongoing research topics include: - Interspecific hy-

bridization and introgression as a mechanism for adaptation - The evolution of resistance to transmission blocking effector genes - Evaluating the behavior of Cas9-based gene drive systems via field trials

Responsibilities: The successful candidate will work on whole-genome sequencing data sets to decipher recent population history and evolution in human malaria parasites and/or Anopheles mosquito vector species.

Required Qualifications: - PhD in Population Genetics/Genomics, Bioinformatics, or related discipline (theoretical and/or applied) - In-depth knowledge of population genetics theory - Demonstrated record of research productivity and publications

Preferred Qualifications: - Experience working in Linux environment - Experience with genomic data analysis - Experience with coalescence/IBD methods - Programming experience (e.g. C/C++, Python/Perl, R) - Strong mathematical/statistical skills

Salary: This is a full-time position. Salary is commensurate with qualifications and experience.

How to apply: Applicants should submit the following materials: - A cover letter - A curriculum vitae - List of relevant publications - Contact information for 3 referees Send the above combined into a single PDF to Gregory Lanzaro (gclanzaro@ucdavis.edu) Review of applications will start immediately. This position will be open until filled. The appointment is for a duration of two years.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct . cmhandy@ucdavis.edu

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UCalifornia SantaCruz HABsGenomicsTranscriptomics

The Institute of Marine Sciences at the University of California, Santa Cruz (UCSC) invites applications for two Postdoctoral Scholars in the Sison-Mangus Lab and Kudela Lab. The first Postdoctoral Scholar will work on developing molecular biomarkers to detect harmful algal bloom species coming from the Philippines waters. The applicant is expected to be familiar with the following suite of approaches: PCR, qPCR, fluorescent in-situ hybridization, flow cytometry, genomics/transcriptomics. The second postdoctoral scholar will work on the usage of IFCB, including building an algal species library for Philippine HABs species, a machine learning approach for the automated algal classification, and the production of a user manual for IFCB field deployment and analysis. The collaboration between UCSC and the Philippine scientists aims to transfer, adapt and localize U.S. HABs methodologies to help monitor and mitigate HABs in Philippine coastal communities. The research project involves an educational component which includes developing manuals and workshop materials to be used for the training of local scientists. Willingness to do a two-week trip to the Philippines each year to help with the training workshop is also expected. Additional responsibilities include manuscript preparation, management, and analysis of significant environmental datasets and statistical analysis. For more information about the research of each respective lab, please see: https://sison-mangus.oceansci.ucsc.edu/ and http://-oceandatacenter.ucsc.edu/home/ Applicants with expertise or have experience in any of the following areas are strongly encouraged to apply:

Postdoctoral Position 1: Application of molecular biology techniques in HABs (PCR, qPCR, FISH, sequence analysis) Phytoplankton genomics or transcriptomics Bioinformatics- experience with amplicon sequence analysis, genomics/transcriptomics analysis. Cultivation-based studies of HABs species Ecology of HABs

Postdoctoral Position 2: Utilization of IFCB in HABs studies (or must be willing to learn) HABs sampling and enumeration Familiarity with HABs species Classification of algal images using a machine learning approach Investigation of plankton dynamics in coastal waters Ecology of HABs

Application Window Open date: June 23, 2022

Review date: August 31, 2022, at 11:59 PM (Pacific Time)

Final date: September 30, 2022, at 11:59 PM (Pacific Time). Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position duration: Postdoctoral Scholar appointments are full-time; the initial appointment is for a minimum of 6 months, with the possibility of reappointment. Reappointment will be contingent upon a positive perfor-

mance review and availability of funding. The total duration of an individual's postdoctoral service may not exceed five years, including postdoctoral service at any institution. Under limited circumstances, an exception to this limit may be considered not to exceed a sixth year.

Qualifications (required at time of start) Ph.D. (or equivalent foreign degree) in biological oceanography, biology, ecology, microbial ecology, evolutionary biology or a similar discipline.

Application Requirements Curriculum Vitae - Your most recently updated C.V. must include a list of two professional references, their contact information, and a complete list of publications (publications can be in preparation).

Cover Letter - Letter of application that briefly summarizes your qualifications and interest in the position.

To submit your application materials, or if you have any questions about this announcement, please email Dr. Marilou Sison-Mangus (msisonma@ucsc.edu)

Marilou Sison-Mangus <msisonma@ucsc.edu>

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UCL London EvolutionaryBiology

Research Career Development Fellowships in the Department of Genetics, Evolution and Environment, UCL: Expression of Interest for 2022

The Research Department of Genetics, Evolution and Environment, (GEE) at University College London (UCL) invites Expressions of Interest from Early Career Researchers (ECRs) who wish to be sponsored for external fellowships to establish an independent research group.

Successful candidates will be of the highest calibre, able to demonstrate an exceptional track record in relation to their career stage, and have the potential to submit competitive fellowship applications. GEE offers a world-class, interactive and support research environment within the Division of Biosciences at UCL. We are strongly committed to recruiting and supporting the most promising ECRs who choose to secure a Group Leader Fellowship as their route to becoming a Principal Investigator. This policy applies to senior fellowships such as Wellcome Trust Henry Dale, MRC CDA, BBSRC David Phillips, NERC IRF, Royal Society URF, CRUK, ERC Starting Grants and equivalent fellowships.

We provide support to ensure that fellows can successfully establish their own research group, have opportunities to gain teaching skills and play a full role in the running of the department. Our commitment starts with academic and administrative support at the application and interview stages and continues throughout the tenure of the fellowship, with regular career development and mentoring programmes. We expect fellows to develop into strong candidates for Principal Investigator positions in the department or elsewhere. In line with this ethos, a large proportion of our past departmental fellows have progressed to permanent positions in GEE.

Areas of Research Interest:

GEE is organised into six Centres, with cross-cutting research interests, and close links with other organisations, including the Francis Crick Institute, the Natural History Museum, and The Zoological Society of London.

We especially welcome expressions of interest from ECRs with a strong track record in the following areas:

Institute of Healthy Aging: Ageing, age-related disease; interventions improving late-life health in model systems (e.g. cellular senescence); applying computational approaches to ageing and late-life disease (AI, big data, medical genomics).

Centre for Biodiversity and Environment Research: Evolution in response to environmental change; theoretical ecology; community or behavioural ecology (especially in plants, insects, fungi or microbes); biodiversity and its contributions to human health and well-being. Centre for Life's Origins and Evolution: Origins and early diversification of the animals; comparative genomics; evolution of cell types; invertebrate palaeontology, plant and fungal evolutionary genomics.

UCL Centre for Computational Biology: Big data and computation; computational genomics; computational phylogenomics.

UCL Genetics Institute: Computational approaches to biology or medicine; computational tool development and applying them to genomic data; high-throughput bioinformatics, statistical genetics; metagenomics.

UCL East Nature Smart Centre: Cross-disciplinary solutions hub bringing together expertise from ecology, computer science, public health, built environment and social science to gather evidence on how we can best manage our natural resources for a sustainable and resilient future.

We strongly encourage expressions of interest from women, disabled candidates, and those from an eth-

nic minority from the UK and internationally as part of our ongoing commitment to equality, diversity, and inclusion.

The Department runs a pre-application selection process. Please contact our fellowships advisors in the first instance, further details of which are available on our website

Apply link https://www.ucl.ac.uk/biosciences/gee/-independent-fellowships Deadline for expressions of interest end of August.

Fiona Williamson Executive Assistant to GEE HoRD Prof Chris Thompson Department of Genetics, Evolution & Environment Darwin Building Room 111, Gower Street, London, WC1E 6BT Tel: 020 7679 2246 (internal Ext 32246)

"Williamson, Fiona" <f.williamson@ucl.ac.uk>

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UdePau ComputationalBiology

Dear all,

We are recruiting one collaborator in Microbial Ecology with expertise in Bioinformatics and/or Computational Biology at the Université de Pau et des Pays de l'Adour. The fellowship will have the duration of 12 months.

Topic:

Metallophores in microbial communities: distribution, diversity, importance in microbial assemblages and ecosystem functioning

Scientific context:

In a natural environment, at pH where most life exists, microbial growth can be limited by the availability of metals. This limitation in the environment can have significant consequences on ecosystem functioning. To ensure their survival and their development, microorganisms have developed strategies for the recovery and absorption of metals from the surrounding environment. The capture of metal is ensured by the synthesis of siderophores (iron) or more generically metallophores. The biosynthetic potential of metallophores does not appear to be equally distributed among organisms, environments or microbial life cycles, but rather is enriched within a number of prolific clades. One field of investigation aims at seeking for new metallophore biosynthetic genes to enlarge our view of their diversity in the microbial world and investigate these data in an eco-evolutionary perspective.

Scientific environment:

The post-doctoral fellow will work at the IPREM Institute (https://iprem.univ-pau.fr/fr/index.html) under the supervision of Pr. B. Lauga and Pr R. Duran, and in collaboration with M. Medema (bioinformatics group) at the U. Wageningen.

He will bring all the bioinformatics expertise required for a fine investigation of metagenomic and metatranscriptomic data generated on field collected, microcosm generated samples and worldwide databases in order to i) establish an inventory of metallophore biosynthetic gene clusters (BGC), in microbial genomes and metagenomes from diverse environments, ii) infer their role in microbial assemblages by linking them to known metallophores and natural products, iii) conduct meta-analysis on the distribution of BGC across worldwide habitats in order to highlight any specific distribution and reveal if hot spots of genetic diversity exist for metallophore BGC.

Our ultimate goals are i) to better understand the metabolic interactions occurring within complex multi-species microbial assemblages, ii) to evaluate, at the ecosystem level, how metallophores contribute to community assembly, functioning, and beyond, to ecosystems functioning. In parallel, teaching duties (64h) will accompany the research tasks.

Situation:

The Université de Pau et des Pays de l'Adour campus is located in the charming city of Pau in southwestern France in a region bordering Spain. It benefits from exceptional resources due to its geographical location, close to the Pyrenees (1h drive) and the Atlantic coast (1h drive), with numerous air links from the airport and trains to Paris.

The IPREM is a Joint Research Unit CNRS / UPPA (UMR 5254) with 120 permanent staff and 140 PhD and Post-docs.

Requirements:

We are seeking a highly motivated postdoctoral research scientist with expertise in the analysis of (meta)genomics/(meta)transcriptomics data to work at IPREM. The ideal candidates should have a PhD in the fields of Bioinformatics or Computational Biology and microbial ecology, with research experience in NGS data analysis. A good background in microbial evolution and biostatistics would be appreciated.

Application procedure:

Send by e-mail to beatrice.lauga@univ-pau.fr and Robert.duran@univ-pau.fr an application file including:

* CV * cover letter * Candidate's PhD abstract and publications * List of jobs obtained after the PhD * 2 letters of recommendation * Contact details (3 referees, including at least the PhD supervisor and the post-doc supervisor (if applicable)

Application deadline

Mid-September 2022

Start

Flexible but preferably before the end of November 2022 Sincerely,

Béatrice LAUGA Professeur des universités

Master 2 Molecular Biology and environmental microbiology (BME) Coordinator

Master 2 BME/BEH Double title UPPA (Pau)-Université d'Oviedo (Spain) Coordinator

IPREM - Institut des Sciences Analytiques et de Physico-Chimie pour l'Environnement et les Matériaux

IPREM UMR5254 - UPPA/CNRS BÃÂtiment IBEAS Allée Jean Loiseau BP 1155 64013 PAU CEDEX Tél : +33 5 59 40 79 65 Email : Beatrice.Lauga@univ-pau.fr

Beatrice Lauga <beatrice.lauga@univ-pau.fr>

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UDuesseldorf GrassGenomics

PostdoctoralPosition (4 years) within the SFB/TRR341 "Plant Ecological Genetics" at theUniversity of Duesseldorf, Germany

SFB/TRR341 "Plant Ecological Genetics"

In a joint and interdisciplinary approach,combining Plant Genetics/Genomics and Ecology, we are investigating the genetic underpinnings of plant responses and adaptation to global environmental change. Here we are looking for a postdoctoral candidate to work on the project "Adaptation in ecologically diverse Hordeum species: a comparative intra- and inter-species approach", a joint project between the von Korff lab (https://www.pflanzengenetik.hhu.de/en/) and the Bucharova lab (https://www.uni-marburg.de/en/fb17/-disciplines/conservation/conservation-biology-group)

What are your tasks:

- Identify intra- and inter-specific trait and genetic variation underlying the ecological diversification, local adaptation,and differences in the geographic range of wild Hordeum species

- Develop and apply statistical and computational tools for the analysis of trait, environmental and genetic/genomic data

- Conduct quantitative and population genetic analyses in collaboration with the experimental scientists on the project

- Support efforts for the in situ sampling and scoring of wild Hordeum populations in Europe

- Supervise and train M.Sc. and PhD students on the project

- Present and publish research results in conferences and scientific journals

What do we expect

- PhD degree in the field of evolutionary or population genetics, ecological genetics, quantitative biology,(bio)-informatics, plant breeding or a comparable discipline

- Knowledge of plant genetic ecology, population and evolutionary biology methods and concepts is desirable

- Experience in the analysis of Next Generation Sequencing or other *omics data

- Proficiency in the use of programming languages(e.g. R, Java, Python, C/C++)

- Excellent oral and written communication skills in English

- Scientific independence and strong motivation

We offer you

- A unique and interdisciplinary research network in Plant Ecological Genetics (TRR 341) that bundles the expertise of excellent scientists from five different research institutions.

- 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.

- Opportunity, upon successful acquisition of external funding, to build your own academic profile

- Family-friendly working environment

If you have further questions on the project or position, please get in touch with Prof. Maria von Korff Schmising (maria.korff.schmising@hhu.de).

Qualified candidates should send their application(cover letter, CV, publication list, contact info of two references, PhD certificate) by e-mail (one single pdf-file) to maria.korff.schmising@hhu.de.

-

maria von <mariakorff@yahoo.com>

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

UEasternFinland HumanSexualSelection

REMINDER: Deadline in three weeks!

The University of Eastern Finlandâ€isâ€inviting applications forâ€a Postdoctoral Researcher/Project Researcher (Mechanisms of cryptic female choice in humans) position. The position will be filledâ€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 applicationâ€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 newâ€researcher,â€you will be workingâ€inâ€the Department of Environmental and Biological Sciences ofâ€Faculty of Science and Forestry.â€Theâ€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-selected' 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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UFlorida ViralPhylodynamics

Subject: Postdoc in viral phylodynamics at University of Florida The University of Florida's Cervidae Health Research Initiative (https://wec.ifas.ufl.edu/cheri/) is hiring a postdoctoral associate to research the epidemiology and transmission dynamics of multiple viral diseases in wildlife in Florida. The ideal candidate will have expertise in phylodynamics, molecular epidemiology of viruses, strong skills in computational biology and sequence data analysis, statistics, and an interest in infectious disease research. The candidates will have a track record of publishing in peer-reviewed academic journals and strong communication and problem-solving skills. The successful applicant will be working with Dr. Kuttichantran Subramaniam in the Department of Infectious Diseases and Immunology and Dr. Samantha

Wisely in the Department of Wildlife Ecology and Conservation. The position is full-time and available for at least 24 months, with an anticipated starting date as early as November 2022. Candidates will have a Ph.D. in a relevant field (computational biology, computer science, applied mathematics, epidemiology, disease ecology or statistics). Salary will be $45,659 - $62,000, commensurate with experience. Please send your cv, statement of interest and names with contact information for 3 references to ufifas.cheri@gmail.com. A full description of the position can be found here: https://-wec.ifas.ufl.edu/cheri/i/postdoc_smw.pdf The deadline to apply is September 1st, 2022

Samantha M. Wisely, Ph.D. Professor of Wildlife Ecology and Director, Cervidae Health Research Initiative Dept. of Wildlife Ecology and Conservation University of Florida wisely@ufl.edu

"Wisely,Samantha M" <wisely@ufl.edu>

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UFreiburg EvolutionaryForestGenetics

The working group of Forest Genetics at the University of Freiburg is looking for a

Postoctoral researcher (w/m/d)

* Application deadline: 22.08.2022 * Start-date: At the earliest possible date. * Fulltime position

The full announcement can be found here: https://-uni-freiburg.de/universitaet/jobs/00002367/ In the Forest genetics group at the Albert-Ludwigs-Universitï¿½t Freiburg, we are investigating the genomic and epigenetic basis of adaptation and acclimation in temperate and tropical tree species. We jointly analyze genetic and genomic data sets with phenotypic and environmental data. Our research is carried out in natural populations as well as in greenhouses and climate chambers.

For our team, we are looking for a postdoctoral researcher with experience in analyzing genomic data sets in non-model species and with an interest in working with trees. The postdoctoral researcher will have the opportunity to establish his/her own profile in forest genetics research and teaching. Further, the successful applicant will be integrated in research, teaching, and administration of our working group. An integration into ongoing projects on the genomic characterization of European forest tree species and on the molecular phenology of tropical tree species is planned. More information on current projects can be found here: http:/-/katrin-heer.de . The position has a teaching obligation of four semester hours per week. Participation in a course on forest genetics and research skills for MSc students is planned. In addition, a course on bioinformatic analysis of genetic datasets for Master students should be established independently.

Your profile

A very good Master's degree in biology, bioinformatics, or similar subjects, and a completed Ph.D. are required. Experience with genomic datasets analysis is required. You will be handling RNAseq and whole-genome sequencing data, carrying out de novo assembly and annotation of transcriptomes and genomes, and analyzing exome capture and other reduced representation sequencing data when working with our group. For this, you should feel comfortable in a Unix environment and with R and ideally Python and you should be willing to learn new analysis pipelines. Ideally, you are familiar with the specifics of working with non-model species. Further, experience in working on clusters and local servers is expected. After a training phase, you should be able to support the working group with establishing the local server infrastructure.

Experience in working with plants and in the laboratory (DNA and RNA extraction, creation of sequencing libraries) is an advantage. You are able to carry out scientific work independently and can demonstrate this through your publications. You enjoy working in a team and have experience supervising BSc and MSc theses. Lectures at the MSc level are in English as is the working language in the group. Therefore, a very good knowledge of English is required. Good knowledge of German is an advantage for administrative support of the group.

What we offer

You will be integrated into a newly established working group at the University of Freiburg working on forest genetics and genomics in temperate and tropical regions.

The position offers the possibility of scientific qualification. The postdoctoral researcher will be supported in writing his/her own research proposals. The salary is the standard salary for postdoctoral positions in Germany including social security and health insurance.

Your application

Your application should include a letter of motivation, an academic CV (including an overview of your research

and teaching activities, an overview of data analysis and software skills, and a publication record), copies of academic transcripts, and contact details for two academic references.

The position is limited to four years and can be extended for another two years after a successful evaluation. The salary will be determined in accordance with E13 TV-L. We are particularly pleased to receive applications from women for the position advertised here.

Please send your application in English including supporting documents mentioned above citing the reference number 00002367, by 22.08.2022 at the latest. Please send your application to the following address in written or electronic form:

Jessica Sun (jessica.sun@forgen.uni-freiburg.de) or use the upload link at the university website

For further information, please contact Prof. Dr. Katrin Heer on the phone number +49 761 203-3647 or E-Mail katrin.heer@forgen.uni-freiburg.de.

Prof. Dr. Katrin Heer Forest Genetics

Albert-Ludwigs-Universitï¿½t Freiburg Faculty of Environment and Natural Resources Bertholdstraï¿½e 17, 79098 Freiburg i. Br., Germany

Phone: +49 761 203 3647

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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

UGlasgow ReproductiveModeEvoDevo

We have a research opportunity at the University of Glasgow in the research team of Kathryn Elmer in collaboration with Maureen Bain and project partner Jean Clobert (CNRS SETE in Moulis, France).

We are seeking a motivated, creative, and enthusiastic postdoctoral researcher for a project on the genetic basis of oviparous and viviparous reproductive modes, funded by NERC. The project will advance reproductive biology by using rigorous experimental tests and functional evolutionary genomics to reveal the molecular basis of reproductive mode evolution and scrutinise a putative reversal. This will be accomplished using the powerful natural framework of a European species (the common lizard) that has both reproductive modes extant. The research aims to identify gene expression and describe ultrastructural features of reproductive tissue; determine the genetic basis of gene expression regulation; and reconstruct the genome-wide evolutionary history across all extant lineages. The project involves extended periods of research stay in Moulis, France. Related side-projects are also possible and supported.

A strong track record of evolutionary and/or developmental biology and/or genetic research is necessary, and on vertebrates (especially squamates) is a benefit. Animal husbandry experience would be very valuable; fieldwork skills would be advantageous. Ability to work well both independently and in a team are a must.

The position is until 31 Aug 2024 and then a further extension (~5-14 months) is anticipated. Start date is flexible; preferably around 1 Nov and not later than Jan 2023. The position is open at grade 6 (early postdoc; research assistant) or grade 7 (experienced postdoc; research associate).

International applicants will be eligible for a UK work visa supported by the University of Glasgow. We strive to be a supportive environment and welcome a diversity of applicants!

The University of Glasgow ranks in the world's top 100 universities, recently won the Top University award from the Times Higher Education, and is strongly committed to supporting postdoc career progression. The city of Glasgow is lively and cultural, and sits on the doorstep of the great outdoors of the Scottish Highlands, islands, and coast.

The official job description and application requirements are available on the University of Glasgow homepage under current vacancies, vacancy reference 091248 or at https://www.jobs.ac.uk/job/CRN714/research-assistant-associate We do not expect candidates to meet all criteria, but do please outline how you meet EACH of the essential/desirable criteria listed in the job advert and any other relevant experience and skills.

The advertisement closes 23 August 2022.

Informal email inquiries to Kathryn in advance are very welcome: kathryn.elmer@glasgow.ac.uk @DrKathrynElmer http://www.gla.ac.uk/-researchinstitutes/bahcm/staff/kathrynelmer/
Kathryn Elmer <Kathryn.Elmer@glasgow.ac.uk>

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UHamburg 3+3yrs EvolutionaryGeneticsImmunity

I am looking for a postdoc to support our research on the evolution, genetics and genomics of the adaptive immune system (especially MHC), using the three-spined stickleback as an experimental model system. My lab has recently moved to the University of Hamburg (Northern Germany) and we are now recruiting new group members.

The position is a fully-funded, full-time, postdoc-level position for initially 3 years, with the possibility of extension for another 3 years upon positive evaluation.

The application deadline is July 18 (very soon!)

Please follow this link to apply online through the university system:

https://www.uni-hamburg.de/en/stellenangebote/ausschreibung.html?jobID=-27bc1b12f1f814c9eef0203b238c3cb6c5020835 In my group we are studying the genetic basis for variation in immunocompetence and disease susceptibility in vertebrates, with a particular focus on the adaptive immune system and specifically the process of antigen presentation (MHC) and recognition (TCRs). We usually take an evolutionary perspective and aim to understand the factors and mechanisms that maintain genetic diversity in this context, but are also interested in the consequences of this diversity for the individual's health and have several ongoing collaborations with clinical groups on specific complex diseases. This position will particularly strengthen our work on the evolutionary side, being responsible for driving our work on the genetics of adaptive immunity in sticklebacks forward. We see the stickleback as a fantastic model species for studying the adaptive immune system in the place where it originally evolved, i.e. in the organism's natural environment. At the same time the stickleback allows us to do fully controlled experiments in the lab (we have a newly equipped fish facility), including controlled exposure experiments and targeted breeding. Previous work from us and others provides an excellent picture of the genetic organization of the MHC in the stickleback, on which we will build. More importantly, we have recently established a TCR sequencing protocol for sticklebacks and are now exploring the T cell repertoire diversity and dynamics in response to different conditions and its interaction with MHC diversity. This position (and the environment we provide) thus holds great promise for exciting research projects into the evolution of antigen recognition and adaptive immunity in a naturally diverse species (nothing against laboratory mice, but they are just not the real thing!).

The position requires wet lab experience and a minor level of field work affinity, but also computer-based analyses and NGS data crunching. So some experience with NGS data analysis will be advantageous. For more specific requirements and duties, including a minor level of teaching, please see the advert above.

Our newly renovated labs and offices in the Institute for Animal Cell and Systems Biology at the University of Hamburg are situated in the middle of Hamburg, the second largest city in Germany. The institute is neighboring the main university campus with its bustling student life and cafes, and easy to reach by bike or any public transport (and car, if you must).

Please see also our lab website for more info: http://www.biologie.uni-hamburg.de/-evolutionaryimmunogenomics We are also looking for a computational biologist with a focus on bioinformatic and biostatistic approaches to studying population genetics as well as the genetics and dynamics of antigen presentation in complex diseases: https://www.uni-hamburg.de/-en/stellenangebote/ausschreibung.html?jobID=-036b25971438a38372950a9d28f644e02959fa84 Please do not hesitate to contact me for informal inquiries, Tobias Lenz

Prof. Dr. Tobias Lenz, Heisenberg-Professor Research Unit for Evolutionary Immunogenomics University of Hamburg Department of Biology Institute of Animal Cell and Systems Biology Martin-Luther-King-Platz 3 20146 Hamburg, Germany

Tel: +49 40 42838 5369 Email: tobias.lenz@uni-hamburg.de

http://www.biologie.uni-hamburg.de/-evolutionaryimmunogenomics Tobias Lenz <tobias.lenz@uni-hamburg.de>

UInnsbruck EcoEvoAdmix

PostDoc position University of Innsbruck: A Postdoc position is available within a 6-yrs FWF START project on eco-evolutionary dynamics and admixture led by Markus Moest at the University of Innsbruck. We investigate admixture in an aquatic keystone grazer and study the consequences of admixture on eco-evolutionary dynamics in the context of global change on the species, communities and ecosystem level. The position is currently funded for 24 months with possibility of extension.

Your project The successful candidate will lead the population genomics and admixture analyses of Daphnia populations in peri-Alpine lakes and develop a population genetics model and analysis framework for a large Daphnia sequence dataset. The candidate may also get involved in a field study collecting plankton and sediment cores in peri-Alpine lakes and participate in the characterization of phenotypic patterns of admixture in Daphnia species. Moreover, the candidate will be involved in mesocosm experiments at the University's Research Institute for Limnology (ILIM) in Mondsee testing the consequences of admixture on eco-evolutionary dynamics. The specific role and responsibilities of the candidate within the project will depend on their main interests and will be discussed. Moreover, the candidate is encouraged to develop own ideas and research questions within the project.

Your skills The planned work will require a high degree of independence as well as the ability to work in a team. Prior experience in any of the following areas will be an advantage: (i) analysis of whole-genome or reduced-representation sequencing data, (ii) experience with population genetics models, simulations (e.g. SLiM, msprime)and/or ABC models (iii) programming skills (e.g. R, Python, bash). The work with an international and diverse team and several international collaborations requires English skills.

What the position offers The annual gross salary is ~56.000 EURO for full employment. The contract includes health insurance and 5 weeks of holidays per year. Furthermore, the university has numerous attractive offers: https://www.uibk.ac.at/universitaet/-zusatzleistungen/index.html.en I aim to ensure an excellent working environment in which everyone can contribute their experience, ideas and ways of thinking and I offer and support professional training. Moreover, I strive for cultural and gender equity, diversity, and inclusion for anyone to be involved in this project. Candidates with a broad range of backgrounds, perspectives, and ideas will be welcomed and are encouraged to apply. For more information on the position, the project, the group, or the University, please do not hesitate to contact me (Markus.Moest@uibk.ac.at).

How to apply I am looking forward to receiving your application. Please send a single pdf file including a letter of motivation, curriculum vitae, a list of publications and contact details of two references to Markus.Moest@uibk.ac.at. Applications should be written in English.

Mï¿½ST Markus, PhD University of Innsbruck Technikerstrasse 25 (Room 517) A-6020 Innsbruck Tel: +43 (0)512 507-51771 Fax: +43 (0)512 507-51799 E-mail: Markus.Moest@uibk.ac.at

"Mï¿½st, Markus Hartmann" <Markus.Moest@uibk.ac.at>

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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 use 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 re-

searcher 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-Hï¿½sch-Weg 15 D-55128 Mainz Germany E-mail: shuqing.xu@uni-mainz.de

Shuqing Xu <shuqing.xu@uni-mainz.de>

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UMichigan PopulationGenetics

We are currently seeking applicants for an NIH-funded postdoc position in the Bradburd lab in the Department of Ecology and Evolutionary Biology at the University of Michigan. Research in the lab is focused on the geography of evolution, and particularly on developing statistical methods for spatial population genetics/genomics. Possible projects include: studying coevolution in continuous space; using pedigrees to estimate population density landscapes; two-locus models for the analysis of spatial population structure over genealogical strata; spatial models for identifying adaptive introgression or studying polygenic adaptation.

Our work combines computational and statistical approaches, with a strong emphasis on simulation and empirical data analysis. The position is ideal for someone with training in statistical, theoretical, or computational population genetics, and/or someone with a strong background in evolution, mathematical biology, statistics, or computing, and an interest in population genetics.

Required Qualifications: - A Ph.D. is required in a biology discipline - Relevant background includes any of: evolutionary genetics, phylogeography, landscape genetics/genomics, computational biology, statistics, applied mathematics, population modeling, evolutionary or ecological theory, computer science, etc.

Additional Information: This position is a one-year term-limited position with the possibility of renewal based upon performance, funding and availability of work.

The selected candidate can expect a starting salary of $60,000 per year, and is eligible for a wide range of University benefits.

Given the uncertainties surrounding the state of the pandemic, the successful candidate may work remotely (i.e. ghostdoc), at least for the first year of the position, and possibly beyond. The ideal start date is Fall 2022, but that date can be flexible for the right candidate.

The Bradburd lab values diversity and is committed to creating a safe, welcoming, supportive, and fun lab environment. Applications from candidates with related scientific interests who are also passionate about diversity, equity, and inclusion in STEM are strongly encouraged. The lab is located in the beautiful Museum of Natural History building on University of Michigan's

campus. Ann Arbor is consistently rated as one of the most "live-able" cities in the country.

How to Apply: Review of applications will begin immediately and continue until the position is filled. Interested candidates should submit a PDF of their CV along with a cover letter describing their qualifications and relevant experience to Gideon Bradburd (bradburd@umich.edu). More information can be found at genescape.org/recruitment.

Gideon Bradburd <bradburd@umich.edu>

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UMissouri EvolutionaryGenomics

A postdoctoral position is available in the laboratory of Elizabeth King (http://elizabethking.org) in the Division of Biological Sciences at the University of Missouri as a part of the MU Research Excellence Program (https://gradschool.missouri.edu/postdoctoral-education/mu-research-excellence-program-rep/). Research in the King Lab addresses fundamental questions in evolutionary genomics, seeking to understand how genomes change when phenotypes evolve. We integrate computational methods with large-scale empirical studies, with a primary focus on understanding the evolution of complex traits, particularly sensory and life history traits, using the fruit fly model system. We welcome applicants who have a desire to learn and to gain experience with quantitative biology, experimental evolution, and/or genomics. There is flexibility in the specific project topic, and the successful applicant will have considerable freedom in guiding the project. Examples of past projects in our lab include: experimental evolution in different diet regimes, genotype to phenotype mapping using multiparent populations, and phenotypic plasticity in genome-wide gene expression patterns.

Initial appointment is for 1 year with the possibility of renewal based on satisfactory performance. Starting salary is $56,000 and includes benefits. The postdoctoral scholar will receive support to apply for a postdoctoral fellowship in the first year. The start date for the position is flexible, ideally no later than January 2023.

Interested applicants should email Elizabeth King (kingeg@missouri.edu) and provide a cover letter, a C.V., and contact information for 3 references. The cover letter should include a brief description of previous research experience, interest in the position, and future career goals. The position will remain open until filled.

The Division of Biological Sciences at MU (http://-biology.missouri.edu/) has research strengths in evolutionary biology, genetics and genomics, and quantitative biology. MU also boasts a highly collaborative research environment between departments within the life sciences (e.g., animal sciences, plant sciences, biomedical sciences, statistics, etc.). Columbia is a vibrant college town located in mid-Missouri, 2 hours from both Kansas City and St. Louis (http://en.wikipedia.org/-wiki/Columbia,_Missouri).

University of Missouri System is firmly committed to Equal Employment Opportunity (EEO) and to compliance with all federal, state, and local laws that prohibit employment discrimination on the basis of race, color, national origin, ancestry, religion, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability, or protected veteran status. This policy (Section 600.010 of the UM Collected Rules and Regulations) applies to all employment decisions including, but not limited to, recruiting, hiring, training, promotions, pay practices, benefits, disciplinary actions, and terminations.

As a government contractor, University of Missouri System is also committed to taking affirmative action to hire and advance minorities and women as well as qualified individuals with disabilities and protected veterans.

kingeg@missouri.edu

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UNeuchatel Switzerland PathogenGenomeEvolution

POSTDOC DRIVERS OF GENOME EVOLUTION IN FUNGAL PATHOGENS

The Laboratory of Evolutionary Genetics located at the University of Neuchï¿½tel (Switzerland) invites applications for a postdoctoral position with Prof. Daniel Croll.

The project will focus primarily on intra-specific dynamics of fungal genomes. We will generate and analyze a very extensive set of complete genome assemblies covering the global distribution range of the major wheat

pathogen Zymoseptoria tritici. The new genome data is embedded with extensive transcriptomics and epigenomics datasets. Even larger re-sequencing datasets and trait variation data is also available. The main questions to address will be to identify proximate and ultimate drivers of genomic variation, how adaptive variation is generated and how genome defences maintain chromosomal integrity. Expanding certain questions to fungal kingdom-wide analyses is a possibility.

Required qualifications: PhD in biology or related fields, strong interest in evolutionary genetics and genome evolution, and experience in bioinformatics. Motivation and enthusiasm for research are key though. Prior experience in population genetics analyses, molecular laboratory work and/or statistical analysis may be a bonus.

We offer a very welcoming and collaborative research environment with many opportunities for open discussions. Collaborations with researchers of diverse backgrounds internationally are also possible. The University of Neuchï¿½tel is centrally located in Switzerland with a wealth of cultural activities, a beautiful lakefront and views of the Swiss Alps.

Application: for 10 August 2022 (or until filled). Review of applications starts immediately.

Starting date/duration: Autumn 2022 (or upon agreement). The initial duration of the postdoc position is one year with the possibility for a two-year extension.

Please send your application as a single PDF to daniel.croll@unine.ch including: a motivation letter (max 1 page), a CV, 1-3 key preprints or publications and contact details of 2-3 references (e.g. PhD supervisor, no letter is required at this stage). For more information about us visit our group website https://-pathogen-genomics.org or contact Prof. Daniel Croll.

The University of Neuchï¿½tel is committed to promoting equality of opportunity.

Prof. Daniel Croll | Laboratory of Evolutionary Genetics | Institute of Biology | University of Neuchï¿½tel Rue Emile-Argand 11 | CH-2000 Neuchï¿½tel | Switzerland +41 (0) 32 718 23 30 | @danielcroll < http://-twitter.com/danielcroll > | www.pathogen-genomics.org
Daniel Croll <daniel.croll@unine.ch>

UNewHampshire MolecularMarineMonitoring

University of New Hampshire - Molecular monitoring in coastal systems We are recruiting a motivated, curious scientist to work on a two year project developing and applying eDNA methods in estuarine systems in the United States. This position requires an interest and skills in developing and applying molecular methods to support understanding and management of marine ecosystems, including sample collection, preparation, and analyses. The successful candidate will work at the University of New Hampshire with faculty in the Department of Civil and Environmental Engineering, and the Hubbard Center for Genome Studies.

You will be working with multiple stakeholders to develop and implement a collaborative eDNA-based monitoring program at 10 existing field sites. We work with resource managers to identify information needs, and to design molecular sampling and analysis methods that can be implemented within an existing monitoring program (the National Estuarine Research Reserve). Researchers and stakeholders will work together to interpret results and refine methods. We seek a motivated candidate to lead the testing and development of laboratory analyses. The main focus of this position is on molecular lab work, but field sampling, bioinformatics and stakeholder communication are also key components. The candidate should have qualifications and interests in a combination of the following topics:

A PhD in molecular biology, marine biology, environmental science or other relevant field. We will consider qualified candidates with a MS degree and experience. Molecular laboratory skills, including metabarcoding and single species (ddPCR) analyses Stakeholder communication and collaborative science

Other useful skills and experience include:

eDNA in aquatic systems Design and testing of primers Marine biology or fisheries biology Bioinformatics and data analysis

Start date: Summer 2022. We are reviewing applications as they come in, and welcome introductory emails if you have questions or want to discus the position before applying.

Fully funded 2yr position with benefits; salary dependent on experience. To apply submit a CV and Cover

letter to alison.watts@unh.edu. Feel free to contact us if you have questions or would like more information before applying.

Alison Watts <Alison.Watts@unh.edu>

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UOslo NHM EvolutionaryBiology

Applications are now invited for a position as Postdoctoral Research Fellow in evolutionary biology available at the Natural History Museum, University of Oslo. The appointment is for a period of four years. Deadline 10th August 2022.

The complete announcement:

https://www.jobbnorge.no/en/available-jobs/job/-229207/postdoctoral-research-fellow-in-evolutionary-biology Best wishes, Kjetil Voje

Kjetil Lysne Voje <k.l.voje@nhm.uio.no>

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UOtago PopulationGenomicsRats

We are seeking an outstanding Postdoctoral Fellow to carry out research for a new project (Population genomics in Norway and Ship rat populations in Aotearoa). This project is funded by Predator Free 2050, to develop genomic datasets that allow an understanding of gene flow in Norway and Ship rat populations in Aotearoa. This project will be carried out as part of a broader PF 2050 project, investigating the application of genetic-based control methods to eradicate rat populations in Aotearoa.

We welcome applications from postdoctoral candidates who have experience in molecular biology, evolutionary and population genetics/genomics, and bioinformatics.

To be successful in this role you will be highly self-motivated and be able to work alongside a wide variety of people. In addition, you will have a strong commitment to research excellence with a track record of high research productivity based on international, peer-reviewed publications commensurate for career stage.

This role is based in the Department of Anatomy, at the University of Otago, and working in collaboration with researchers from Plant and Food Research. The Department makes major contributions to the undergraduate and postgraduate education of students in science, medicine, dentistry, pharmacy, physiotherapy, medical laboratory sciences, and physical education. Its research activities fall within four interdisciplinary programmes encompassing: biological anthropology; clinical anatomy; neuroscience; reproduction, genomics and development.

This is a full-time, fixed term position for two years (1 August 2022 - 30 July 2024).

Applications from M?ori and Pacific candidates, and tangata Tiriti, are warmly encouraged.

Please address any questions to Catherine Collins (catherine.collins@otago.ac.nz) For more information and to apply https://otago.taleo.net/-careersection/2/jobdetail.ftl?lang=en&job=2201273 catherine.collins@otago.ac.nz

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UOxford UK InsectSymbiosis

A one-year postdoctoral researcher position is available at the University of Oxford to conduct research on insect-symbiont interactions with Dr Ailsa McLean (Royal Society University Research Fellow in the Department of Zoology).

Many animals have important and persistent relationships (symbioses) with bacteria. In some cases, symbiotic bacteria are known to protect their animal hosts against pathogens and parasites, forming a component of host immunity. The overarching aim of this project is to understand how relationships between symbionts, hosts and natural enemies influence the broader ecological community, using a model insect system. The postdoctoral researcher will conduct experiments to alter the bacterial symbiont infections of aphids and examine the outcomes for their natural enemies.

Candidates should hold (or shortly expect to gain) a PhD/DPhil in a relevant biological field (ecology/evolution). Experience working with insects in

a laboratory or field setting would be an advantage.

A link to the further details and application form can be seen here: https://www.jobs.ac.uk/job/CQX446/-postdoctoral-research-assistant Deadline for applications is 12 noon on 4th August 2022.

Ailsa McLean <ailsa.mclean@zoo.ox.ac.uk>

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UPadua AdaptationToClimateChange

POST-DOCTORAL FELLOW

The laboratory of genetics and ecophysiology in marine animals (Prof. Luca Bargelloni and Dr. Luca Peruzza) located at the Department of Comparative Biomedicine - University of Padua (Italy) - is offering one research fellow position to work in the context of mitigation strategies to counteract the impacts of climate change in bivalve molluscs.

Project: The laboratory is interested in understanding how the bivalve mollusc Ruditapes philippinarum (widely farmed for aquaculture) responds to climate extreme events and if we can adopt mitigation strategies to counteract the negative impacts of these extreme events on the biology of this important mollusc. With this aim, we are integrating physiological, behavioural, and molecular (e.g. biochemistry, transcriptomics and quantitative genetics) data to address key fundamental gaps in our knowledge. The specific aim of the project is studying mitigation strategies against extreme climate events and pathogens in the manila clam Ruditapes philippinarum. Activities will involve extensive lab work in our aquarium facility located in our Marine Station in Chioggia (on the Venice lagoon), field work in the Venice lagoon, wet-lab activities in our molecular biology lab, and bioinformatics analyses.

Eligibility: The research fellow should have completed a PhD in the field of Marine Biology, Biology, Aquaculture or related areas, should be able to work independently and as part of a team and be proficient in English (oral and written). The position will combine field work, molecular biology, and bioinformatics. Skills required are knowledge in molecular biology and familiarity in daily maintenance of experimental aquaria. Previous experience with bioinformatics analysis and marine invertebrates, as well creativity and high motivation are highly encouraged.

Job description: We are offering a 1-year contract with the possibility to extend for 1 additional year. Remuneration is 25000 ??? gross/year. The expected starting date is from September/October 2022 (flexible).

Working environment: The research fellow will join the research group at the Department of Comparative Biomedicine and Food Science at the University of Padova (BCA) and the marine station in Chioggia. The BCA Department has been awarded as ???Department of Excellence??? in aquatic animal research, offering a privileged environment to researchers with an excellent community in Marine Science in one of the best (and oldest) universities in Italy. The team is committed to maintaining a respectful, inclusive, and friendly working environment, as well as promoting career development. Padua is a vibrant city and a major cultural and economic centre in north-eastern Italy.

Application procedure: Interested candidates should submit a single pdf with a motivation letter, a short description of current and past research projects and their CV to <luca.peruzza@unipd.it>. Recommendation letters are appreciated but not crucial at this stage.

Deadline: Applicants who are short-listed for the position will be contacted personally. For more information, please contact <luca.peruzza@unipd.it>

Luca Peruzza <luca.peruzza@unipd.it>

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UPadua MarineAdaptation

1 Research Fellow position on adaptation of marine organisms to climate change

The laboratory of genetics and ecophysiology in marine animals (Prof. Luca Bargelloni and Dr. Luca Peruzza) located at the Department of Comparative Biomedicine at the University of Padua (Italy) is offering one research fellow position to work in the context of mitigation strategies to counteract the impacts of climate change in bivalve molluscs.

Project: The laboratory is interested in understanding how the bivalve mollusc Ruditapes philippinarum (widely farmed for aquaculture) responds to climate extreme events and if we can adopt mitigation strategies

to counteract the negative impacts of these extreme events on the biology of this important mollusc.

With this aim, we are integrating physiological, behavioural, and molecular (e.g. biochemistry, transcriptomics and quantitative genetics) data to address key fundamental gaps in our knowledge.

The specific aim of the project is studying mitigation strategies against extreme climate events and pathogens in the manila clam Ruditapes Activities will involve extensive lab work in our aquarium facility located in our Marine Station in Chioggia (on the Venice lagoon), field work in the Venice lagoon, wet-lab activities in our molecular biology lab, and bioinformatics analyses.

Eligibility: The research fellow should have completed a MSc or a PhD in the field of Marine Biology, Biology, Aquaculture or related areas, should be able to work independently and as part of a team and be proficient in English (oral and written). The position will combine field work, molecular biology, and bioinformatics. Skills required are knowledge in molecular biology and familiarity in daily maintenance of experimental aquaria. Previous experience with bioinformatics analysis and marine invertebrates, as well creativity and high motivation are highly encouraged.

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To apply please check for this web-page: https://-www.bca.unipd.it/bando-di-selezione-il-conferimento-di-n-1-assegno-attivit%C3%A0-di-ricerca-tipo-scadenza-presentazione-3 Application deadline is August 9th 2022.

Luca Peruzza <luca.peruzza@unipd.it>

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UQuebecMontreal CricketQuantGenetics

Offre de contrat de postdoc sur la génétique quantitative des grillons

Nous recrutons un postdoc de 2 ans (début septembre 2022) pour travailler sur un projet utilisant la sélection artificielle pour améliorer la productivité des grillons d'élevage (Gryllus sigillatus). Le projet sera réalisé sous la codirection de Clint Kelly et Denis Réale, à l'Université du Québec à Montréal, en collaboration avec la ferme à grillon Entomo Farms basée à Peterborough (ON, Canada). Il comporte une partie appliquée à l'amélioration génétique des élevages de grillons, mais la personne embauchée pourra aussi développer des recherches innovantes sur des sujets de son choix en lien avec le projet.

Les candidat.e.s devront posséder un doctorat en biologie, avec de bonnes connaissances en génétique quantitative, en biologie évolutive et sur les théories des traits d'histoire de vie. L'anglais sera un atout important pour interagir avec Entomo Farms. La personne retenue devra avoir un permis de conduire pour se rendre régulièrement à Entomo Farms, en Ontario.

Si vous êtes intéressés, merci d'envoyer votre CV, une lettre de motivation, et les noms de trois personnes de références à Clint Kelly (<> <>kelly.clint@uqam.ca) avant le 15 aout 2022. Le projet est financé par MITACS et le salaire est de 45 000 Can$ / an.

Pour plus d'informations, veuillez contacter Clint Kelly (kelly.clint@uqam.ca) ou Denis Réale (reale.denis@uqam.ca)

—-

<>Postdoc position on quantitative genetics of field crickets <> We are recruiting a 2-year postdoc (beginning of September 2022) to work on a project using artificial selection to improve the productivity of farmed field crickets (Gryllus sigillatus). The project will be carried out under the co-direction of Clint Kelly and Denis Réale, at the Université du Québec à Montréal, in collaboration with Entomo Farms based in Peterborough (ON, Canada). It includes an applied part to the genetic improvement of cricket production with the possibility for the candidate to develop their own innovative research on relevant topics. <>

Candidates must have a PhD in biology, with a good knowledge of quantitative genetics, evolutionary biology, and life history theory. <>The candidate must speak English (to interact with Entomo Farms) and must possess the ability to drive a car to Entomo Farms in Ontario. <>

If you are interested, please send your CV, a cover letter, and the names of three references to Clint Kelly (kelly.clint@uqam.ca) before August 15, 2022. The project is funded by MITACS, and the salary is 45,000 Can$ / year.

For more information, please contact Clint Kelly (kelly.clint@uqam.ca) or Denis Réale (reale.denis@uqam.ca)

"Kelly, Clint Dale" <kelly.clint@uqam.ca>

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WashingtonU StLouis HelminthGenomics

July 15, 2022 Postdoctoral Research Associate

Washington University School of Medicine, St. Louis, MO, USA

Job Description A PhD level position is available ASAP in the Mitreva Lab (mitrevalab.wustl.edu) at the Division of Infectious Diseases, Department of Medicine and McDonnell Genome Institute and Washington University School of Medicine. The candidate will be part of an established and successful research group focused on integrating â-omics' approaches aimed at understanding helminth infections at a systems biology level. The position requires working collaboratively with a team of experimental and computational biologists focused on integrating multidimensional biological data to better understand pathogen evolution, ecology, biology, host-pathogen interaction, epidemiology, transmission, etc.

Washington University School of Medicine (medicine.wustl.edu) is one of the two main campuses of Washington University in St. Louis

Mitreva Lab is in the McDonnell Genome Institute (genome.wustl.edu/) which has been at the forefront of genome research since its inception in 1993. We are a world-leader in genomics research as it applies to the study of model organisms and human biology, infections, genetic diseases, and the ïof personalized medicine. We provide a value-added biologically and clinically relevant sequence analysis, and foster public understanding of science through various educational and outreach efforts.

The postdoctoral fellow will work on NIH-funded projects focused on parasitic vector-borne disease caused by Onchocerca volvulus and the liver fluke Fasciola hepatica. Better understanding of how the genomes of these parasites evolve can enables us to discover how they resist standard drugs. That knowledge then could result in identification of genetic markers that predict whether a drug will fail to effectively treat infected individuals, thus guiding the design of new treatments. Onchocerciasis (river blindness) is primarily endemic in sub-Saharan Africa, with an estimated 197 million people at risk of infection, and Fascioliasis (liver fluke) has been reported in 81 countries worldwide and infects between 2.5-17 million people. The project aims at identifying genetic markers and mechanisms of anthelmintic resistance to facilitate production of tools to tackle post-treatment recrudescence of infection, parasites emergence and spread. The candidate will be responsible for leading and carrying out this innovative project that involve population and functional genomics studies of these important parasites, and will have opportunities to travel and to present at national and international conferences.

Publications reïthe research portfolio of Mitreva Lab: https://www.ncbi.nlm.nih.gov/pubmed?cmd=-search&term=mitreva+m+or+mitreva-dautova+m
Minimum Requirements

Graduate degree (Ph.D.) in computational biology or a related ï.

Solid background in evolutionary and population genomics, molecular biology/genetics techniques, computational biology and biostatistics.

Preferred Qualiï

Ability to be outstanding in drive, eagerness, and scientiïimagination, as well as organized and self- motivated.

Experience in evolutionary and population genomics and bioinformatics.

Experience in computational, statistical analysis and phylogenomics are particularly encouraged. Familiarity with frequently used bioinformatic tools (NGS aligners, GATK package, NCBI website tools, Ensembl, UCSC genome browser, Kinship, RNA-seq analysis tools, DE-seq).

Proïin R and in programming languages (MATLAB, C#, and R), programs useful for high- throughput analysis (e.g. cytoscape), databases (MySQL, Oracle), and Perl scripting language. Comfortable working on

UNIX/Linux platform.

Applicant Special Instructions Interested candidates should email cover letter, curriculum vitae, summary of their research, one key ïauthor publication and contact information for three recent references to: mmitreva@wustl.edu .

Makedonka Mitreva, Ph.D. Professor of Medicine and of Genetics Director, Center for Clinical Genomics of Microbial Systems Division of Infectious Diseases, Department of Internal Medicine

McDonnell Genome Institute

“Mitreva, Makedonka” <mmitreva@wustl.edu>

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WashingtonU StLouis PhylogeneticModels

I’m hiring a postdoc to research statistical phylogenetic models and methods. Together, we’ll define the exact project(s) based on shared research interests and goals. Current topics my group studies include phylogenetic inference, divergence time estimation, historical biogeography, evolution of ecological interactions, integration of paleodata into phylogenetic models, phylodynamics of infectious disease, and Bayesian and deep learning methods.

Our group (https://landislab.org) is part of the Department of Biology at Washington University in St. Louis and the larger St. Louis biodiversity research community (WUSTL, UMSL, SLU, Danforth Plant Science Center, MOBOT, St. Louis Zoo). St. Louis itself is a large metropolitan area with good food, music, public spaces, and affordable housing.

Qualifications: -âexperience in biology, computer science, statistics, etc. - Programming experience, with a preference for C, C++, Java, Python, R, or Julia -âhave PhD before start date

Employment: -âstarts at $60k/yr -âinclude health, vision, and dental insurance -âof living for a single adult in St. Louis City is ~$35k/yr (https://livingwage.mit.edu/-counties/29510) -âis for 3 years

Dates: -âreviews begin July 18th, 2022 -âstart date is September 1st, 2022 (flexible)

To apply, please email the following materials to michael.landis@wustl.edu: -â€1-2 page description of your interest and fit for the lab -âcurrent CV -âinfo for 2 professional references

Please feel welcome to contact me with any questions or to simply notify me that you plan to apply.

Michael Landis Assistant Professor Department of Biology Washington University in St. Louis michael.landis@wustl.edu https://landislab.org https:/-/landislab.org

Yale CAES MosquitoPopulationGenetics

POSTDOCTORAL RESEARCH SCIENTIST IN MOSQUITO POPULATION GENETICS

A postdoctoral position on mosquito population genetics is available to work in collaboration with Andrea Gloria-Soria at The Connecticut Agricultural Experiment Station (CAES) and Jeffrey Powell at Yale University, in New Haven, CT (USA).

Context: Aedes aegypti is the primary vector of the most important arboviruses causing human diseases: yellow fever (YFV), dengue (DENV), chikungunya (CHIKV), and Zika (ZIKV). We seek a colleague to work on a project that seeks to understand the origin and evolution of Ae. aegypti and sister species in its ancestral range on Southwest Indian Ocean islands, providing insights into Ae. aegypti’s past, present, and future distributions and adaptability. The project is a collaborative work that includes multi-disciplinary investigators from CAES, Yale, U. of Calgary, France IRD, and the Institut Pasteur Madagascar.

Opportunity: The postdoctoral researcher will lead the effort to characterize the genetic diversity across the ancestral range of Ae. aegypti, address questions of demography and population structure, and identifying putative sources of admixture in the region, using large genomic datasets. Depending on your personal interests and skills, projects on genome evolution, molecular evolution, behavioral genetics and ecological genomics are also possible

We seek an independent and motivated candidate with experience in molecular genetics, genomics, next-generation sequencing data, and bioinformatics, that will be able to identify new and interesting research

directions stemming from these studies. A PhD in evolutionary biology, genetics, bioinformatics, or a related field is required. Background in population genetics and with analysis of large-scale genomic data is needed. Basic molecular biology wet lab skills are desired (DNA extraction, PCR). The applicant should have strong written and oral communication skills, critical thinking and the ability to work independently and in collaboration with others. No previous experience in mosquitoes is required.

This position is available in Summer or early Fall 2022, with a flexible start time. Although this is a joint position between CAES and Yale, appointment will be done through Yale University. Funding is available for two years with a possible extension for up to three years depending on performance and funding. This position is NIH-funded.

To apply please send 1) a cover letter describing your interest and experience, 2) CV, and 3) a list of three references to andrea.gloria-soria@yale.edu. We encourage candidates with backgrounds traditionally underrepresented in STEM to apply.

Review of applications will begin immediately and continue until the position is filled.

Additional information about our research can be found at: https://andreagloriasoria.wordpress.com About our host institutions: CAES is a state-funded institution dedicated to basic and applied research that benefits plant, environmental, and human health in Connecticut. CAES is an affirmative action/equal opportunity provider and employer. CAES fosters a highly collaborative and collegial research environment and maintains close ties to nearby academic institutions, including Yale University, Southern Connecticut State University, Central Connecticut State University, and the University of Connecticut. CAES is a 6 minutes bus ride from the Powell lab at Yale and Yale main campus.

The Ecology and Evolutionary Department at Yale University is home to broad, interdisciplinary and highly collaborative research with particular expertise in population, community, ecosystem, and macroecology; in evolutionary genetics, developmental evolution, behavioral evolution, and evolutionary medicine; and in phylogenetics, systematics, and biodiversity. Yale University considers applicants for employment without regard to, and does not discriminate on the basis of, an individual's sex, race, color, religion, age, disability, status as a veteran, or national or ethnic origin; nor does Yale discriminate on the basis of sexual orientation or gender identity or expression.

"Gloria-Soria, Andrea" <andrea.gloria-soria@yale.edu>

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YorkU Canada BeeGenomics

Postdoctoral positions in applied and evolutionary genomics at York University, Toronto, Canada

The honey bee lab (www.yorku.ca/zayedlab) at York University's Dept. of Biology (Toronto, Canada) has several positions available starting Fall of 2022. Projects include:

1) Molecular palynology: To better understand the role of nutrition in bee health, our group is looking for a postdoctoral fellow with experience in DNA barcoding and meta-barcoding to identify the source and diversity of pollen collected by honey bee colonies situated near and far from a large number of crops in Canada (https://beecsi.ca/).

2) Comparative population genomics of eusocial insects: We are looking for a postdoctoral fellow to study the relationship between genome evolution and social evolution using population genomic datasets on a large number of insects that vary in their social organization.

3) Genome wide association studies and marker-assisted selection in honey bees: We are looking for a postdoctoral fellow with experience in genome wide association studies to chart the honey bee genotype-phenotype map and apply this knowledge in honey bee breeding.

Duration: 2 years Salary: $55,000 per year, including benefits

Qualified candidates are encouraged to submit a cover letter outlining their expertise, a CV, reprints of relevant papers, and contact information for 3 referees to honeybee@yorku.ca. We will evaluate the applications as they are received.

In addition to the honey bee lab, York University is home to the Center for Bee Ecology, Evolution and Conservation (BEEc, https://bees.yorku.ca). Successful candidates will have a chance to interact with the diverse faculty, fellows and students at BEEc, and participate in BEEc activities and training initiatives.

Ida Conflitti <iconflitti@gmail.com>

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WorkshopsCourses

Karyashala India WildlifeConservation Jul25-31

Sir/Madam,

I feel immense pleasure to announce that the Zoological Survey of India, a premier institution under the Ministry of Environment, Forest and Climate Change will be organizing a one week ZSI-SERB Karyashala (workshop)-2022 on"Demonstrating standard operating procedures to combat illegal wildlife trade & strengthening wildlife forensic capabilities in India"during 25th to 31st July 2022. The workshop is aimed to develop a cohort of professionals with the ability to deal with wildlife forensic cases within the context of the specific requirements related to investigations for legal purposes. The graduates, young scientists, practitioners and the front-line staff will be prioritized in selection, and may be considered for travel bursary and accomodation following govt norms.

Kindly find the copy of the advertisement and pls widely circulate to the aspirants. Applications received on or before 8th July 2022 will be considered. A soft copy of the application may be emailed tothamukesh@gmail.com with a subject line Application for ZSI-SERB Karyashala-2022.

Venue: ZSI. Kolkata, WB Duration: 25th to 31st July 2022

Intake: 25 Mode: Off-line

The detailed advertisement may be found on https://-zsi.gov.in/App/content.aspx?link=331&nr=y Look forward to it. Thanks & Regards, Mukesh

–

Mukesh Thakur, Ph.D., C.W.F.S.

Scientist C & O/c - Mammal and Osteology Section

Coordinator - Centre for Forensic Sciences

Zoological Survey of India, Prani Vigyan Bhawan M-Block, New Alipore Kolkata-700053;Mobile: +91-8171051282;FAX : 91-33-24008595

E.mail:thamukesh@gmail.com,mukeshthakur@zsi.gov.in

AWARDEE - INSA Medal for Young Scientist (2018), DSTINSPIRE Faculty (2017) andDST Young Scientist (2013)

IUCN - SSC Deer Specialist Group

IUCN - SSC Galliformes Specialist Group Fellow- Chinese Academy of Sciences

Follow me on ResearchGate&Twitter

"Dr. Mukesh Thakur" <thamukesh@gmail.com>

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Online DataAnalysisWithTidyverse Jul18-21

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 info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://twitter.com/Physacourses)

"info@physalia-courses.org" <info@physalia-courses.org>

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Online GeneralisedAdditiveModelsInR Oct10-14

Dear all,

registration is now open for the 2nd edition of the Generalised Additive Models in R course: https://www.physalia-courses.org/courses-workshops/-gams-in-r/ Dates: online, October, 10th-14th

The course is aimed at graduate students and researchers with some statistical knowledge; ideally you'll know something about generalized linear models, likelihood, and AIC. However we'll recap what GLMs are so if you're a little rusty or not everything mentioned in the GLM course makes sense, we have you covered. From running the course previously, knowing the difference between "fixed" and "random" effects, and what the terms "random intercepts" and "random slopes" are, will be helpful for the Hierarchical GAM topic, but we don't expect you to be an expert in mixed effects or hierarchical models to take this course. Participants should be familiar with RStudio and have some fluency in programming R code, including being able to import, manipulate (e.g. modify variables) and visualise data. There will be a mix of lectures, in-class discussion, and hands-on practical exercises along the course.

After completing the course, attendees will be in the condition to:

1. Understand how GAMs work from a practical view point to learn relationships between covariates and response from the data 2. Be able to fit GAMs in R using the mgcv and brms packages 3. Know the differences between the types of splines and when to use them in your models 4. Know how to visualise fitted GAMs and to check the assumptions of the model

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Online MultivariateDataAnalysisWithR Nov21-25

Dear all,

registration is now open for the online Physalia course "Multivariate data analysis with R and vegan" in November (21st-25th).

Course website: https://www.physalia-courses.org/-courses-workshops/vegan/ In this course, we will focus on the use of ordination methods and on the use of restricted permutations to test a range of experimental designs. We will focus in particular on when and how to use multivariate methods including unconstrained and constrained ordination (CCA, RDA, Constrained PCoA), as well as between-group tests such as PERMANOVA. We will cover concepts such as design- and model-based permutations and the exchangeability of samples in tests. We will also discuss the use of vegan to go beyond simply fitting a constrained ordination model, to diagnostics, plotting, etc.

This course is suitable for PhD students (including senior thesis-based masters students) and researchers working with multivariate data sets in biology (inter alia ecology, animal science agriculture, microbial ecology/microbiology), with limited statistical knowledge but a willingness to learn more.

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 RNAseq Jul18-22

RNAseq Analysis II: Differential Expression Analysis Hosted by:Data Analytics Core Contact Information:DataAnalyticsCore@groups.dartmouth.edu Location: Zoom link to be provided This workshop will introduce the technique and theory of a differential expression analysis. In this workshop, participants will:

Develop a working understanding of fundamental bioinformatics and statistical concepts for a typical bulk RNA-seq differential expression analysis

Learn how to leverage the R/Bioconductor framework to perform differential expression analysis

Learn how to use unsupervised data analysis methods (e.g. principal components analysis) to explore RNA-seq datasets

Perform a complete differential expression analysis on a real RNA-seq dataset

Monday, July 18, 2022 12-5pm EST Wednesday, July 20, 2022 12-5pm EST Friday, July 22, 202212-5pm EST Registration Limit: 40 Workshop will not run with fewer than 25 participants Register here:

https://sites.dartmouth.edu/cqb/current-workshops/ Shannon Margaret Soucy <Shannon.Margaret.Soucy@dartmouth.edu>

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Online RNAseqWithBioconductor Nov7-18

Dear all,

registration is now open for the 3rd edition of the Analysis of RNA sequencing data with R/Bioconductor course.

Dates: online, November 7th-18th

This course will provide biologists and bioinformaticians with practical statistical analysis skills to perform rigorous analysis of high-throughput genomic data. The

course assumes basic familiarity with genomics and with R programming, but does not assume prior statistical training. It covers the statistical concepts necessary to analyze genomic and transcriptomic high-throughput data generated by next-generation sequencing, including: hypothesis testing, data visualization, genomic region analysis, differential expression analysis, and gene set analysis.

** Session 1 - Introduction (Mon, Nov 07, 3-6 PM, Berlin time)

- Introduction to R / RStudio - Creating high-quality graphics in R

** Session 2 - Hypothesis testing (Wed, Nov 09, 3-6 PM, Berlin time)

- CDF, p-value, binomial test - types of error, t-test, permutation test

** Session 3 - Bioconductor (Fri, Nov 11, 3-6 PM, Berlin time)

- Introduction to Bioconductor - Working with genomic region data in Bioconductor (GenomicRanges)

** Session 4 - RNA-seq data analysis (Mon, Nov 14, 3-6 PM, Berlin time)

- Characteristics of RNA-seq data - Storing and analyzing RNA-seq data in Bioconductor (SummarizedExperiment)

** Session 5 - Differential expression analysis (Wed, Nov 16, 3-6 PM, Berlin time)

- Multiple hypothesis testing - Performing differential expression analysis with DESeq2

** Session 6 - Gene set analysis (Fri, Nov 18, 3-6 PM, Berlin time)

- A primer on terminology, existing methods & statistical theory - GO/KEGG overrepresentation analysis - Functional class scoring & permutation testing

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 SpeciationGenomics Dec5-9

Dear all,

registration is now open for the 6th edition of the Speciation Genomics!

Course website: (https://www.physalia-courses.org/courses-workshops/course37/)

Dates: online, December, 5th-9th

Through a combination of lectures covering key theoretical and conceptual topics, alongside hands-on exercises, participants will learn the most important computational approaches used in speciation genomics. This will include a heavy emphasis on data visualization and intepretation. After completing of the course, the participants should be able to begin using NGS data to shed light on the genomic aspects of speciation in their study system of choice.

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 StatisticsWithRTidyverse Sep19-22

Dear all,

there are still a few seats available for our Introduction to Statistics in R with the tidyverse:

(https://www.physalia-courses.org/courses-workshops/-course13/)

Dates: Online, September 19th-22nd

After a short introduction on R and its principles, the focus will be on questions that could be addressed using common statistical analyses, both for descriptive statistics and for statistical inference.

The course is aimed at people interested in widening their analytical toolbox. The course is structured in a way that even an inexperienced and naï¿½ve attendee could take advantage of the possibilities offered by the inclusion of statistical analyses using R. There will be a mix of lectures and hands-on practical exercises using R as a freely available software and online resources. The course is devoted to beginners with no prior knowledge of statistics, programming, and R language, but with a keen interest in using R as a platform for statistical analyses. All scripts will be carefully explained to allow all attendees understanding the rationale and usage of the statistical approaches.

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 TropicConservationGenetics Sep12-23

We are happy to announce Conservation Genetics in the Tropics 2022, which will be all online this year.

Many conservation genetics tools have been developed for use in temperate other high latitude habitats, and so not all of these tools translate to the tropics. Tropical habitats share some features which complicate the application of some conservation genetics tools which are heavily relied upon in higher latitudes, and also share some basic questions and problems that are less of an issue in higher latitudes or other, better studies and/ or less diverse habitats.

This course will discuss practical issues, genetic and genomic theory, tools and analyses as applied to issues relevant to conservation in the tropics. Some basic questions of conservation importance include describing species diversity, determining species distributions, characterizing the basic biology of species, and understanding demographic history and population size and structure. Underlying biogeographic histories that have shaped communities, and the biotic interactions within those communities are also of fundamental importance. There are online computer practicals in parallel with the lectures, seminars and discussions.

This course is designed with students and practitioners of Conservation Biology or Conservation Genetics in the tropical regions of America, Africa and Asia in mind.

This course will take place September 12 - 23 entirely online, hosted by the Estaciï¿½n Biolï¿½gica de Doï¿½ana (www.ebd.csic.es). In order to best accommodate people across many time zones, this course will consist of a combination of pre-recorded lectures and seminars, and synchronous discussions and practicals. The course will be held in English.

For more information, check out the website: http://consevol.org/consgentropicscourse.html Jennifer Leonard Conservation and Evolutionary Genetics Group Estaciï¿½n Biolï¿½gica de Doï¿½ana Avd. Americo Vespucio 26 41092 Sevilla, Spain

www.consevol.org Jennifer Leonard <jleonard@ebd.csic.es>

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Online UsingVegan CommunityAnalysis Sep12-16

PR statistics have 2 courses on multivariate stats, an intro course (IMAE) and a more advanced course for people with one previous experience.

These courses can be applied to any areas of community data, from gut biome to forest ecology data.

Please feel free to share!

ONLINE COURSE - Multivariate Analysis Of Ecological Communities Using R With The VEGAN package (VGNR04)

https://www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-using-r-with-the-vegan-package-vgnr04/ 12 September 2022 - 16 September 2022

This 5-day course will cover R concepts, methods, and tools that can be used to analyze community ecology data. The course will review data processing techniques relevant to multivariate data sets. We will cover diversity indices, distance measures and distance-based multivariate methods, clustering, classification and ordination techniques using the R package VEGAN. We will use real-world empirical data sets to motivate analyses, such as describing patterns along gradients of environmental or anthropogenic disturbances, quantifying the effects of continuous and discrete predictors. We will emphasise visualisation and reproducible workflows as well as good programming practices. The modules will consist of introductory lectures, guided computer coding, and participant exercises. The course is intended for intermediate users of R who are interested in community ecology, particularly in the areas of terrestrial and wetland ecology, microbial ecology, and natural resource management. You are strongly encouraged to use your own data sets (they should be clean and already structured, see the document: "recommendation if you participate with your data".

Any questions please emailoliverhooker@prstatistics.com

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-imae01/ 29 August 2022 - 31 August 2022

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.

– Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Prague ESEB WritingAboutEvolution Aug14

Dear friends,

EVOKE and EuroScitizen, in close collaboration with ESEB 2022, are proud to announce the Workshop "Writing about science for general audiences", a hands-on one-day event where the participants will be invited to write a news article or a press release based on a research paper of their choice. Join us and learn new ways to disseminate your research!

Date and location: 14th August 2022 within the context of ESEB 2022 congress (at Prague, Czech Republic)

Topics:

Science the route from the bench to the newspaper

News articles, press releases contents and structure

Adjusting the content to audiences and different media

The importance of fact-checking

Writing a news article or press release about a research topic

More information and application here: https://evokeproject.org/writing-about-science-for-general-audiences/ Best wishes, Rita Ponce, Xana Sá Pinto, Alex Jeffries and Szymek Drobniak

Rita Ponce <anaritaponce@gmail.com>

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UExeter ClimateChangeGenomics Sep13-15

Climate change genomics workshop: vulnerability, adaptations & applications

This international online workshop is organised by the Climate Change Ecology and Ecological Genetics Special Interest Groups of the British Ecological Society. Participants will discuss methodologies, evidence and applications of genomics to investigate climate change induced effects on organisms. We aim to develop best practices for applying genetic/genomic tools to assess vulnerability and study adaptations to climate change in order to inform adaptive conservation management and promote better integration of genomic approaches in both climate change research and biodiversity conservation. This workshop will bring together international experts, junior scientists and everyone in between, working across a variety of ecological systems.

The workshop is split into morning and afternoon sessions to accommodate participants across different time zones. Each day will focus on a different theme and will include a combination of invited speaker talks, talks selected from abstract submissions, followed by breakout room discussions, and online poster sessions, with prizes for the best student talk and poster.

*Day 1 Methods (**13 Sep 2022**):* Exploring methods to assess vulnerability to climate change using genomic tools.

*Day 2 Evidence (14 Sep 2022): *Adaptation and resilience, including evidence of genetic adaptations to climate and climate change and genetic impacts of range shifts.

Day 3 Applications (15 Sep 2022): Approaches to monitoring genetic/genomic responses and changes under climate change and applications in policy and conservation management.

For more information: https://-www.britishecologicalsociety.org/event/climate-change-genomics-workshop-vulnerability-adaptations-applications/ *Registration on Eventbrite:* https://-www.eventbrite.co.uk/e/climate-change-genomics-workshop-vulnerability-adaptations-applications-tickets-388539942427 *Registration deadline: 2nd September 2022*

Abstract submission is now open for oral presentations (10 mins) or e-poster presentations (3 mins).

Submission deadline: 26th August 2022 Acceptance notification: 2nd September 2022

Abstract should be submitted via: https://-forms.office.com/r/zwnqQ19AxQ For questions or more information please contact the Climate Change SIG (climatechange@britishecologicalsociety.org) or Ecological Genetics Group (genetics@britishecologicalsociety.org).

Dr Orly Razgour

Senior Lecturer in Ecology

Biosciences | University of Exeter | Streatham Campus | Exeter EX4 4PS

Websites: http://biosciences.exeter.ac.uk/staff/-profile/index.php?web_id=3DOrly_Razgour http://-globalchangegenetics.org Twitter: @OrlyRazgour < https://twitter.com/OrlyRazgour >

GoogleScholar < https://scholar.google.co.uk/-citations?user=3D5BMs12EAAAAJ&hl=3Den > ; ResearchGate < https://www.researchgate.net/profile/-Orly_Razgour >

Senior Editor: Diversity and Distributions < https://-onlinelibrary.wiley.com/journal/14724642 >

Associate Editor: Journal of Applied Ecology < https://-besjournals.onlinelibrary.wiley.com/journal/13652664 >

Orly Razgour <orly.razgour@gmail.com>

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 notifcation 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 formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.