E v o l D i r

February 1, 2023

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

AmericanU WashingtonDC MolEvolution Mar17-19

The Journal of Molecular Evolution, in partnership with American University and the Institute for Genomics and Evolutionary Medicine at Temple University, will host a free conference for career scientists, researchers and students at AU in March.

ABOUT THE CONFERENCE: This three-day conference will feature invited talks from the journal's editorial board members, selected talks from submitted abstracts, a poster session, and presentations for new researchers on the funding landscape for molecular evolution in the United States from National Science Foundation program officer Paco Moore (Evolutionary Processes) and NASA Astrobiology program officer Lindsay Hays.

WHERE/WHEN: Friday March 17 to Sunday March 19

The three-day, all-day conference is open to the public and free. It will take place at American University's Hall of Science located on AU's campus at 4400 Massachusetts Avenue, Washington, D.C. 20016. American University's 125,000-square-foot Hall of Science officially opened its doors during the COVID-19 pandemic. Since then, it's been transformed into a hub of cutting-edge science teaching and research for both undergrad and graduate students. The hall's state-of-the-art laboratories and classrooms are home to AU's departments of biology, environmental science, chemistry and neuroscience.

Complete schedule and reservation information: https://igem.temple.edu/jmev/ .

David Liberles

https://temple.zoom.us/j/4149647428 David A Liberles <daliberles@temple.edu>

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Brazil PlatyhelminthesEvolution Jul24-28

Dear flatworm enthusiasts,

Registration for the XV International Symposium on Flatworm Biology is open! The symposium will be held at the Center for Marine Biology (CEBIMar) of the University of Sï¿½o Paulo from 24-28 July 2023, Brazil. Please, visit the official web page at https://www.even3.com.br/xvisfb/ You will find detailed information on the event, including dates for registration and submission of abstracts, confirmed invited speakers, proceedings, registration fees, accommodation, and how

to contact us if you need any additional information.

We hope this contact will encourage you to attend this important scientific event.

Sincerely,

Fernando Carbayo. Convener. Don't miss the XV International Symposium on Flatworm Biology < https://www.even3.com.br/xvisfb/ > 24-28 July 2023, CEBIMar, Sï¿½o Sebastiï¿½o, Brazil

XV ISFB Brazil <xv.isfb@gmail.com>

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Florida TeachingEvolution Mar23-25

Early Bird Registration is Open!

Life Discovery - Doing Science Biology Education Conference Variants in Biology Education: What Can We Learn from Pandemics? March 23-25th 2023 Tallahassee, Florida

Thaw out those frozen education ideas by joining us this spring in sunny Florida! Register before February 24 to get our lowest rate! https://www.esa.org/ldc/registration/ Need a Little Help Getting to the Conference? Travel Awards are Available! Funds up to $1,200 or more (for qualifying situations) are available to support educator travel and conference registration! These travel awards are made possible through support from the National Science Foundation.

Apply by Jan 21 for priority consideration! https://www.esa.org/ldc/travel-awards/ Vanessa Koelling <vkoellin@aum.edu>

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Loretto PA ConservationGenetics Jun21-Jul1

We are pleased to announce to the Conservation Genetics Community that ConGen GLOBAL is offering the next edition of the Recent Advances in Conservation Genetics Course (ConGen-2023), which will be held in at the St. Francis University campus in Loretto, PA,June 21- July 1, 2023.

The course will host 25-30 participants dedicated to the conservation of animals and plants and about 20-25 distinguished faculty from around the world. The course is directed by its founder, Dr. Stephen J. O'Brien, and taught by renowned scientists conversant in the methods, interpretation, and applications of genomic-based analyses for conservation of endangered species. The 20-25 esteemed experts listed below will share their personal research expertise and experiences in this important and rapidly developing field.

The ConGen-2023 faculty represent an amazing group of people who come from around the world and will be teaching, sharing their current research and conservation stories, and interacting with students during the course. Participants will learn how to handle bioinformatics pipelines and algorithms for analyzing genomic and genetic data through lectures and hands-on computer tutorials.

Some of the topics to be covered include:

- Study design for conservation genomic projects - Overview of genome sequencing and reduced representation methods - Genome assembly and annotation - Read mapping - Variant discovery - Analysis of genomic diversity and inbreeding - Identification of deleterious variants - Admixture analysis - Estimation of historical effective population size - Application of genomic data to aid conservation of ex situ and in situ populations,

Each evening will feature a keynote-style open lecture by one of the guest faculty on their seminal research advances and interpretations in conservation biology and genomics, including a feature from Rachel Newer, an author of a recently published book on the topic of biological conservation. A full day wildlife-based field trip will be planned by local hosts from the SFU.

Please fill out the registration form to be considered as one of the participants for the course. We encourage graduate students, postdoctoral scholars, early-career researchers and established research scientists to apply. Participants should have previous coursework and/or experience in evolutionary biology, genetics, genomics, and/or population genetics and be familiar working in the command-line environment. During the selection process, ConGen organizers are committed to promote diversity and inclusion, as diverse perspectives help to generate better ideas to solve the complex problems in conservation of endangered species around the world.

The ConGen2023 committee will review the applications and announce acceptances by April 1.Admittance to the course is competitive so please be sure to submit your

application in a timely manner.

Application for the ConGen2023 acceptance is a competitive process:the committee will evaluate your application and will mail you an acceptance letter if you are qualified. You do not need to pay the registration fee before receiving the acceptance letter. You will have at least until April 30th to pay your registration deposit or forfeit your placement to the next person on the waiting list.

Time:June 21 - July 1, 2023

Address:117 Evergreen Drive, Loretto, PA 15940

The cost of participation in ConGen2023 is $2,250, which includes tuition, lodging, meals, and transportation from and to the local airport in State College, the University Park Airport (SCE)to and from the course venue on the first day and last day of the course.

webpage:http://conservationgenetics.org Deadline when Application Page will Close: March 15, 2023

Taras K. Oleksyk, Ph.D. Department of Biological Sciences Oakland University Dodge Hall Rm 367 118 Library Dr Rochester, MI 48309-4479 +1 (248) 370-3359 fax: (248) 370-4225 oleksyk@oakland.edu

Taras Oleksyk <oleksyk@oakland.edu>

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MaxPlanckInst Ploen ModellingResistanceEvolution Apr26-28

MODELLING RESISTANCE EVOLUTION - THEORETICAL METHODOLOGY SYMPOSIUM

Max Planck Institute for Evolutionary Biology, Plön, Germany 26-28 April 2023

Symposium Website: https://-workshops.evolbio.mpg.de/event/75/

Application deadline: 3 February 2023

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Dear all,

We want to draw your attention to an upcoming symposium on the mathematical modelling of resistance evolution. The title of the symposium is “Modelling Resistance Evolution - Theoretical Methodology Symposium”, and it will take place on 26-28 April 2023 at the Max Planck Institute for Evolutionary Biology in Plön, Germany. More information can be found on the website: https://workshops.evolbio.mpg.de/event/75/ .The application deadline is 3 February 2023.

With this symposium, we want to bring together scientists working on resistance problems (both in bacteria and cancer) to give place to discussions on the theoretical methods employed in studying resistance evolution. We believe there exists a disconnection between theoretical modellers working on similar problems in resistance evolution, and this symposium is an attempt to fill this gap. We encourage the application of researchers at any career stage working on the mathematical modelling of resistance.

The confirmed speakers include: Hildegard Uecker (Max Planck Institute for Evolutionary Biology, Germany). Helen Alexander (University of Edinburgh, UK). Tobias Bollenbach (University of Cologne, Germany). Jasmine Foo (University of Minnesota, US). Jacob Scott (Cleveland Clinic, US).

The symposium will include “method sessions” to discuss specific topics relevant to modelling resistance evolution (e.g. drug-drug interactions, pharmacodynamics, and population growth models). These sessions will include short talks followed by a group discussion.

Please feel free to contact us in case of questions. We are looking forward to welcoming you to Plön!

Best wishes, Christin Nyhoegen and Ernesto Berríos-Caro

Stochastic Evolutionary Dynamics group Department for Evolutionary Theory Max Planck Institute for Evolutionary Biology

Contact: nyhoegen@evolbio.mpg.de berrios-caro@evolbio.mpg.de

Christin Nyhoegen <nyhoegen@evolbio.mpg.de>

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MaxPlanckInst Ploen ModelsEvolRescue Jun5-8

MATHEMATICAL MODELS OF EVOLUTIONARY RESCUE

Max Planck Institute for Evolutionary Biology, Plön,

Germany June 5-8, 2023

Registration: https://workshops.evolbio.mpg.de/event/-82/ IMPORTANT DATES

Registration deadline: 1 March, 2023 Symposium: 5-8 June, 2023

The symposium starts on June 5 at 5pm and ends on June 8 in the evening.

OVERVIEW

Evolution can rescue populations from extinction. In conservation this is desired, in medicine it is often not.

There has now been nearly 30 years of research under the banner of "evolutionary rescue". A substantial proportion of this has been mathematical modelling. This theory has expanded from deterministic 1-locus and phenotypic models to incorporate complexities such as stochasticity, multiple loci, life-history, space, and interacting species.

The goal of this symposium is to bring together theoreticians working on a wide range of rescue models â€from 1-locus to inï-loci, from conservation to medicine â€to synthesize what we already know and to identify key knowledge gaps.

In addition to invited and contributed talks and posters there will be "pitched discussions" on speciïtopics, designed to motivate and direct the future of evolutionary rescue theory.

INVITED SPEAKERS

Peter Czuppon (University of Münster) Florence Débarre (Institute of Ecology and Environmental Sciences Paris) Richard Gomulkiewicz (Washington State University) Guillaume Martin (Institut des Sciences de l'Ãvolution de Montpellier) Ophélie Ronce (Institut des Sciences de l'Ãvolution de Montpellier) Lindi Wahl (Western University) Masato Yamamichi (University of Queensland)

APPLICATION & REGISTRATION

Participants do not have to contribute a talk or poster. However, if you do not submit an abstract please brieïstate your motivation for participating (max. 250 words) in the appropriate ï. The number of participants is limited. Applicants will be notiïabout acceptance by March 8.

Registration is free. However, you need to pay for your own travel and accommodation. If you do not have sufficient funds to cover these expenses, please provide some information (including estimated gaps in funding) in the respective ïupon registration. We may be able to subsidize travel in exceptional cases.

CONTACT

Please contact the organizers, Hildegard Uecker (uecker@evolbio.mpg.de) and Matthew Osmond (mm.osmond@utoronto.ca), if you have any questions.

Hildegard Uecker <uecker@evolbio.mpg.de>

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Online BirdMigrationGenomics Feb8

Dear All,

The first online Cigene seminar of the spring series takes place on Wednesday 8th February, 12:00-12:50 (Oslo Time). See details below.

Speaker: Kristaps Sokolovskis, Lund University, Sweden.

Title: Genetics of Migration in Willow Warblers

Abstract: Right before northern hemisphere's summer shifts to autumn, small insect-eating birds start lengthy journeys to tropical regions. It's been known for a long time that a substantial part of this behavior is genetically controlled however the genetic basis of bird migration remains poorly understood. We tracked genotyped willow warblers Phylloscopus trochilus from a migratory divide in Sweden where south-east and south-west migratory subspecies meet and interbreed. We found that two markers that seem to follow dominant inheritance and interact epistatically together explain 74% of variation in migration direction. The talk will be based on our recent paper: https://doi.org/10.1038/s41467-023-35788-7 Zoom link: https://nmbu.zoom.us/j/67064421833 An overview of the spring series timetable is available here: https://cigene.no/cigene-seminar-series/. More titles/abstracts for future seminars to follow.

** We are looking for an MSCA postdoc candidate! (by March 24th) **

https://www.nmbu.no/forskning/euramme/nmbu-msca-pf-masterclass See you soon!

Marie

Marie SAITOU, Ph.D.

Tenure-Track Principal Investigator,

Centre of Integrative Genetics (CIGENE),

Faculty of Biosciences,

Norwegian University of Life Sciences

https://sites.google.com/view/saitou-lab Marie Saito <marie.saitou@nmbu.no>

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Online SMBE EpigenomicsInEvolution Feb28 Mar1

Dear colleagues,

We are accepting late abstract submissions until *February 3, 2023*.

Please use this link for abstract submission and mark GS9 as First Choice symposium:

https://app.oxfordabstracts.com/stages/5602/submitter "Epigenomics in Evolution" Symposium (GS9) is part of the SMBEeverywhere 2022-2023 series of Global Symposia.

Date and time: 1 March (Oceania/Asia) / 28 February (Europe/America/Africa), 16:00-22:00 UTC

We have invited talks from Eva Jablonka (Tel Aviv University) and Christina Richards (University of South Florida, University of Tübingen).

Please visit the SMBEeverywhere GS9 website for more information: http://www.smbe.org/smbe/MEETINGS/SMBEeverywhere/GS9.aspx Registration is free to SMBE members.

Abstract: Epigenomic variation functions as a conduit between genomic variation and environmental cues and can regulate genomic expression in response to the environment. Furthermore, environmentally-induced epigenetic changes can be passed on to offspring and even persist multiple generations. Recently, empirical studies testing the role of epigenomic variation in eco-evolutionary processes are increasing, something hitherto mostly discussed theoretically.

With this symposium, we aim to attract research that elucidates key questions relating to the contribution of epigenetic variation to evolution including:

1) How does the epigenome respond to environmental challenges, and how does epigenetic variation contribute to evolutionary processes?

2) What are the fitness consequences of epigenomic variation for individuals, populations or species?

3) How does epigenomic variation evolve over time, and across generations?

The goal is to bring together approaches that characterize epigenomic variation across taxonomic groups in experimental and field studies, and to test its role in ecologically relevant settings, across generations and at different organisational levels.

Sincerely,

GS9 Organizers:

Dafni Anastasiadi (Plant & Food Research, New Zealand),

Sheri Johnson (University of Otago, New Zealand),

Clare Venney (Université Laval, Canada),

Maren Wellenreuther (Plant & Food Research & University of Auckland, New Zealand)

Dafni Anastasiadi <dafanast@gmail.com>

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Online SMBE EpigenomicsInEvolution Feb28-Mar1

Dear colleagues,

We are happy to invite you to the "Epigenomics in Evolution" Symposium (GS9) that is part of the SMBEeverywhere 2022-2023 series of Global Symposia.

Date and time: 1 March (Oceania/Asia) / 28 February (Europe/America/Africa), 16:00-22:00 UTC

Abstract submission deadline: 25 January 2023

We have invited talks from Eva Jablonka (Tel Aviv University) and Christina Richards (University of South Florida, University of Tübingen).

Please visit the SMBEeverywhere GS9 website for more information: http://www.smbe.org/smbe/MEETINGS/SMBEeverywhere/GS9.aspx Please submit your abstracts here: https://app.oxfordabstracts.com/stages/5484/submitter Registration is free to SMBE members.

Abstract: Epigenomic variation functions as a conduit between genomic variation and environmental cues and can regulate genomic expression in response to the

environment. Furthermore, environmentally-induced epigenetic changes can be passed on to offspring and even persist multiple generations. Recently, empirical studies testing the role of epigenomic variation in eco-evolutionary processes are increasing, something hitherto mostly discussed theoretically.

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Clare Venney (Université Laval, Canada),

Maren Wellenreuther (Plant & Food Research & University of Auckland, New Zealand)

dafanast@gmail.com

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Online SMBE SexDifferencesGeneticsEvolution Apr26-27

Dear colleagues,

We are thrilled to invite you to the "Genetics and Evolution of Sex Differences" Symposium

(GS10) that is part of the SMBEeverywhere 2022-2023 series of Global

Symposia.

Our symposium will take place in short sessions across two days: April 26 - April 27, from 4pm-7pm EDT (1pm-4pm PST, 8pm-11pm UTC). Note that this corresponds to April 27 - April 28 for Australasia (6am-9am AEDT, 8am-11am NZDT).

We have invited talks from Mark Kirkpatrick (University of Texas Austin) and David Page (Whitehead Institute and MIT).

Please visit the SMBEeverywhere GS10 website for more information:

http://www.smbe.org/smbe/MEETINGS/-SMBEeverywhere/GS10.aspx Abstract submission deadline: 18 February 2023

Please submit your abstracts here:

https://app.oxfordabstracts.com/stages/5602/-submitter We particularly encourage submissions from underrepresented groups in the SMBE community (e.g., women, minorities, LGBTQ+, individuals based outside US/Canada/Europe/Australia/NZ).

Registration is free to SMBE members.

Abstract: Sexual dimorphism is one of the most conspicuous examples of evolution by natural selection and is observed across numerous phenotypes and species. It is even observed in molecular processes like mutation and recombination that directly shape patterns of genetic variation. However, the heritable components of traits under sex-differential selection stem largely from genetic sequences that are co-inherited between the sexes (e.g., autosomes, X chromosomes). This genetic constraint gives rise to genetic variants with opposing fitness effects in each sex, which can shape genomes over short and long evolutionary timescales (e.g., they can affect the evolution of sex chromosomes), influence population

extinction, and maintain genetic variation for fitness and disease. However, despite a decade of genomic-era research, studying sex-differential genetic effects and evolution remains very challenging.

This symposium will bring together theoreticians and empiricists to present cutting-edge research and novel approaches aimed at understanding the evolutionary causes and genetic consequences of sex differences.

Sincerely,

GS10 Organizers:

Ludovic Dutoit (Univ of Otago, NZ)

Sarah Flanagan (Univ of Canterbury, NZ)

Arbel Harpak (UT Austin, USA)

Filip Ruzicka (Monash Univ, Australia)

Ziyue Gao (Univ of Pennsylvania, USA)

Filip Ruzicka <Filip.Ruzicka@monash.edu>

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PortTownsend Washington EVO-WIBO Apr28-30

We invite you to attend the 2023 EVO-WIBO Conference, a gathering of evolutionary biologists from across the Pacific Northwest.

This meeting is held every other year (when not interrupted by pandemics) and typically attracts 120-140 researchers for a fun and lively weekend of presentations and discussions about all aspects of evolutionary biology. The conference will be held April 28th-30th at Fort Worden State Park in beautiful Port Townsend, Washington.

For more information on the conference and to register visit https://www.zoology.ubc.ca/evo-wibo/index.html. Space is limited, so register early. We look forward to seeing you there!

Alison Scoville & Mike Whitlock

*****

Alison Scoville

she/her/hers

Professor of Biological Sciences

400 E University Way Ellensburg, WA 98926 Science Building 338G scoville@cwu.edu

cwu.edu/biology/

Scoville@cwu.edu

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RhodeIsland GRC EcolEvolGenomics Jul30-Aug4

Dear all,

Applications and abstract submissions are open for the 2023 Gordon Research Conference on Ecological and Evolutionary Genomics (July 30 - August 4 2023): https://www.grc.org/ecological-and-evolutionary-genomics-conference/2023/ We are excited to invite you to Bryant University, Rhode Island, USA, where we are assembling a diverse group of established and early career investigators to discuss their latest work across a wide variety of organisms. A subset of the submitted abstracts will be selected for short talk presentations and a limited number of travel grants will be available. Join us to participate in creative discussions in an inclusive social and scientific atmosphere to empower the future research in the field!

Key dates: Submission deadline for short talk presentations: April 23 Application deadline: July 2

Please note that this conference has a limited capacity of 200 attendants. Applications will be handled on the first-come-first-serve basis.

Preliminary program: Experimental Evolution: Christian Schï¿½tterer, Megan Frederickson (chair: Arnaud Martin) Adaptation and Evolutionary Innovations: Hopi Hoekstra, Arnaud Martin, Paul Magwene (chair: Elizabeth Heath-Heckman) Rapid Evolutionary Change, Climate and Biodiversity: Moises Exposito-Alonso, David Enard (chair: Sam Yeaman) Population & Community Genomics: Julia Saltz, A. Murat Eren, Manon Morin (chair: Vera Domingues) Comparative Genomics: Priya Moorjani, Dmitri Petrov, Kirsten Bomblies (chair: Ines Drinnenberg) Biodiversity in the Omics Era: Rachel Meyer, Aude Bernheim, Tim Sackton (chair: Adam Siepel) Dark Side of the Genome: Ines Drinnenberg, Alexander Suh (chair: Julien Ayroles) Methodological Innovation, Machine Learning and Big Data: Adam Siepel, Erin Molloy, Andrew Kern (chair: Priya Moor-

jani) The Future of Ecological & Evolutionary Genomics: Olivia Harringmeyer, Ioannis Sarropoulos (chair: Moises Exposito-Alonso)

The GRC conference is preceded by a Gordon Research Seminar on July 29-30, providing a unique forum for doctoral and post-doctoral researchers to present their work and build collaborative relationships with their peers.

We are looking forward to seeing you in Rhode Island this summer!

Sarah Kocher and Camille Berthelot Co-chairs of the 2023 Gordon Research Conference on Ecological and Evolutionary Genomics

Camille Berthelot Group Leader - Comparative Functional Genomics Institut Pasteur - CNRS UMR 3525 - INSERM UA12 25-28 rue du Docteur Roux, 75015 Paris, France e-mail: camille.berthelot@pasteur.fr

Camille Berthelot <camille.berthelot@pasteur.fr>

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Romania FutureResilientForests Sep23

EvolTree Conference 2023: Reserve the Date!

The second EvolTree conference with the topic "Resilient forests for the future" will be held in hybrid format at the University of Brasov, Romania, from September 12-15, 2023.

Important dates & registration: March 1: Registration and abstract submission open May 31: Abstract submission deadline July 15: Final program online July 31: Registration closes for on-site participation August 31: Registration closes for online participation

Please reserve the date! More detailed information will follow. Also check out the EvolTree website for more information: https://www.evoltree.eu/conferences/-conference/second-evoltree-conference-2023 Christian Rellstab <christian.rellstab@wsl.ch>

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Roscoff France SexUnfolded Sep11-15

Dear Colleagues,

Update on the upcoming Jacques Monod Conference: SEX UNFOLDED : SEX, ASEX, SEXES September 11-15, 2023 in Roscoff (Brittany), France.

The list of invited speakers and details are here: https:/-/www.insb.cnrs.fr/fr/sex-unfolded-sex-asex-sexes The application website is not yet open, but will be soon; stay tuned!

We hope to see you there,

Thomas Lenormand, Karine Van Doninck, Denis Roze

Thomas LENORMAND <thomas.lenormand@cefe.cnrs.fr>

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Scotland EMPSEB28 May29

28th European Meeting for PhD Students in Evolutionary Biology (EMPSEB28)

FSC Millport, Scotland, UK May 29th - June 3rd 2023

We are excited to invite you to the 28th European Meeting for PhD Students in Evolutionary Biology. Since 1995, EMPSEB has been an annual conference organized by and intended for doctoral researchers in evolutionary biology all around Europe. It is an opportunity for international students to gather, learn, and network with peers and professionals in our diverse field. This year, our wonderful plenary speakers are Renske Onstein, Jordi van Gestel, Kirsty MacLeod and Piotr Åukasik.

EMPSEB28 will be a hybrid conference and we are thrilled to host you for a week of inspirational science and fun either in Scotland or on our online platform! Abstract submission is now open (deadline: 23rd January).

EMPSEB28 Abstract submission: https://-www.empseb28.com/abstracts EMPSEB28 Home-

page:https://www.empseb28.com/home EMPSEB28 Twitter:https://twitter.com/EMPSEB28 Email us: empsebconf@gmail.com

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.

Georgia Lambert <G.A.Lambert@sms.ed.ac.uk>

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Scotland EMPSEB28 May29-Jun3

28th European Meeting for PhD Students in Evolutionary Biology (EMPSEB28)

FSC Millport, Scotland, UK

May 29th - June 3rd 2023

We are excited to invite you to the 28th European Meeting for PhD Students in Evolutionary Biology. Since 1995, EMPSEB has been an annual conference organized by and intended for doctoral researchers in evolutionary biology all around Europe. It is an opportunity for international students to gather, learn, and network with peers and professionals in our diverse field. This year, our wonderful plenary speakers are Renske Onstein, Jordi van Gestel, Kirsty MacLeod and Piotr Åukasik.

EMPSEB28 will be a hybrid conference and we are thrilled to host you for a week of inspirational science and fun either in Scotland or on our online platform! Abstract submission is now open (deadline: 23rd January)

EMPSEB28 Abstract submission: https://-www.empseb28.com/abstracts EMPSEB28 Homepage:https://www.empseb28.com/home EMPSEB28 Twitter:https://twitter.com/EMPSEB28 Email us: empsebconf@gmail.com

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.

Georgia Lambert <G.A.Lambert@sms.ed.ac.uk>

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StAugustine Florida Polyploidy May9-13

Polyploidy Across the Tree of Life Conference https://www.polyploidconference.org/2023-polyploidy-across-the-tree-of-life To be held in St. Augustine, FL (USA) on Tuesday, May 9th at 6pm until Friday, May 12th, 2023 at 5pm. There will be many opportunities to present your research at this meeting, so please submit your abstract by February 17th to be considered for a short talk.

Abstract submission (https://-www.polyploidconference.org/2023-polyploidy-across-the-tree-of-life/submit-an-abstract)

The meeting will include talks by leaders in the field including keynote seminars by Susan Gerbi and Yves van de Peer and invited talks by Adrienne Roeder, Andrew Duncan, Patrick Edger, Terezie Mandakova, and Kentaro Shimizu. We hope you can join us! Registration fee and more details on the program speaker schedule will be posted soon.

Best, Organizers: Vicki Losick Douglas Soltis Pam Soltis Shyama Nandakumar Wu-Min Deng

Dr. Tia-Lynn Ashman Distinguished Professor Department of Biological Sciences University of Pittsburgh Pittsburgh, Pa 15260

Phone: 412-624-0984

"Ashman, Tia-Lynn" <tia1@pitt.edu>

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Turkey EvolutionaryBiol Feb10-11

Dear EvolDir Team,

We are writing to you in the context of the Aykut Kence Evolution Conference (AKEK), the 17th iteration of which will be held for the 17th time by the Middle East Technical University Biology and Genetics Society on 10-11 February 2023 at the METU Culture and Congress Center. The conference is an endeavour to explain the

principles of evolution and counter misconceptions and misinformation about the theory of evolution and the field of evolutionary biology. Originally organised as the National Evolution Conference in 2005 and every year henceforth, it was renamed as the Aykut Kence Evolution Conference to commemorate the life and work of Aykut Kence, a Turkish evolutionary biologist who was instrumental in mainstreaming concepts of evolution in Turkey. Till now, we are proud to have given the stage to more than 90 national and international scientists.

As part of our efforts to spread the news about the conference, we are reaching out and connecting with the natural sciences and technology departments and societies of universities all over the world. We believe it is imperative to act together and be united in the name of science, and move the ideals of evolution forward. In this regard, we would appreciate it if you could share our announcement with your members and patrons.

In line with our schedule, the conference will be held at full capacity in two halls: Hall A (Academic Hall) and Kemal KurdaÂo Hall (General Hall) with simultaneous presentations. General Hall presentations will also be broadcast simultaneously, open to everyone, and free of charge on the Aykut Kence Evolution Conference YouTube channel with translation support. A digital certificate will be given to participants who participate face-to-face.

In the Kemal KurdaÂo Hall, the language of presentation is mainly Turkish, and simultaneous translation will be provided for presentations in English. In Hall A, presentations will be in English. While the presentations in General Hall are aimed at the general public, Hall A's presentations require sufficient knowledge in the fields of biological sciences and evolutionary biology and an academic command of English; As such, we would appreciate interested participants registering for Hall A.

The registrations for the 17th Aykut Kence Evolution Conference have been opened, and there is no specific closing date; the quota is limited and the registrations will close as and when it is filled.

Please feel free to ask any questions you have!

Please find our contact details below:

Our contact address for registrations is akekkayit@gmail.com,

For communication with social media and public relations: akekodtu@gmail.com ,

Our contact address for corporate relations is akekkurumsal@gmail.com

For detailed information about Aykut Kence Evolution Conferences: https://www.aykutkenceevrimkonferansi.org/ https://www.facebook.com/odtuakek https://www.instagram.com/odtuakek https://www.twitter.com/odtuakek https://www.linkedin.com/in/akek https://www.linkedin.com/company/aykutkenceevrimkonferansi https://www.youtube.com/channel/UCbRCgMvn4_wSon3i-9Tl2Mg Middle East Technical University Biology and Genetics Society

Aykut Kence Evrim KonferansÂ[1]

e: 15.aykutkenceevrimkonferansi@gmail.com

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Aykut Kence Evrim KonferansÂ[1] <akekodtu@gmail.com>

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UKansas Genomics May19

Dear Colleagues,

It is our pleasure to invite you to the 2nd Annual Research Symposium hosted by the KU Center for Genomics. The meeting will be held in person on Friday, May 19, 2023 at Maceli's Banquet Hall in Lawrence, KS. The symposium aims to highlight genetics and genomics work by researchers at regional institutions in diverse fields from evolutionary biology to anthropology to engineering. We will have an exciting keynote talk from UCSF Postdoctoral Scholar, Colin Brand on his work examining molecular phenotypes using machine learning.

We invite anyone, especially postdocs, graduate students, research staff, and undergraduates, to apply to present their work via poster or oral presentation. Abstracts are due March 15 for oral presentations. Registration is open until April 15, 2023. The event is free for anyone to present or attend, and registration is required.

For additional information about the symposium in-

cluding registration information, please see the attached flyer or follow this link < https://genomics.ku.edu/2023-genomics-symposium >. Please feel free to forward this to anyone who may be interested. If there are any questions or comments, please direct them to kucg@ku.edu.

On behalf of the organizing committee, we look forward to seeing everyone in May!

Link to webpage: https://genomics.ku.edu/2023-genomics-symposium Thank you, KU Symposium Postdoc Committee

"Everman, Elizabeth Rose" <e.everman@ku.edu>

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UNAM Mexico EvolutionaryBehaviour Jun21-23

3rd International Student Symposium on Animal Behaviour and Cognition

UNAM, Mexico City, Mexico

21-23 June 2023

We are excited to invite you to the 3rd International Student Symposium on Animal Behaviour and Cognition, set to take place at at the Amoxcalli building at UNAM in Mexico City, Mexico, June 21st-23rd 2023.

This hybrid conference aims to bring together early career researchers in animal behaviour from all over the world to present their work, learn and network. We have a heavy focus on making our conference as accessible and diverse as possible, hoping to bring the field of animal behaviour to all students regardless of their racial, educational, geographical and socioeconomic backgrounds, gender, sexual orientation or any disabilities they may have. For the 3rd ISSABC, we are extremely happy to include workshops on ecophysiology, animal welfare and telemetry, as well as plenary talks by outstanding early career researchers in a variety of fields of animal behaviour and cognition. Our invited speakers will be Sonja Wild, Filipa Abreu, Birgit Szabo, Mark O'Hara and Berenika Mioduszewska!

We are also very happy to announce that we are in the position to offer travel grants and fee waivers to students that want to attend but do not possess the means necessary!

Register for the 3rd ISSABC here: [https://issabc.org/-register/]

Abstract submission (Deadline February 5th): [https://-/issabc.org/abstract-submission/]

Travel grants: [https://issabc.org/travel-grants-and-waivers/]

Contact: [infoissabc@ciencias.unam.mx]

For more information visit our website (issabc.org) or our social media!

The ISSABC 2023 organising team Twitter: twitter.com/ISS_ABC Facebook: facebook.com/ISSABC2023 Instagram: instagram.com/ISS.ABC

Alexandros Vezyrakis <vezyrakis@evolbio.mpg.de>

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UWashington StatisticalQuantGenetics Jul14-16

The University of Washington will hold a Symposium in Statistical and Quantitative Genetics, July 14-16 2023, during the Summer Institute in Statistical Genetics.

Details are available at https://-www.biostat.washington.edu/events/-statgensymposium2023 Bruce Weir bsweir@uw.edu

Bruce S Weir <bsweir@uw.edu>

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YosemiteNatlPark Symbiosis May5-7

Dear Colleagues,

The ELEVENTH annual Yosemite Symbiosis Workshop will take place on May 5-7th, 2023 at the Sierra Nevada Research Institute, Yosemite National Park. In the previous TEN years, this meeting became a great venue for a diversity of symbiosis researchers. We hope to continue to attract a diverse group in 2023!

KEYNOTE SPEAKER: Monica Medina!! Penn State

University http://medinalab.org/new/ Why: Our goal is to better integrate scientists that focus on symbiosis research, including researchers that study animal-microbe and plant-microbe systems, as well as broader topics related to the microbiome, cooperation, and mutualism. This will be our 11h annual meeting and we have been consistently attracting scientists from all over the country and overseas.

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

What: The meeting will be made up of two half-days of talks and one poster session. Other than the keynote (˜1 hour), talks are 15 minutes long (including time for questions). Posters are flexible for size, but the ideal poster should be no larger than ˜4 feet square. When you apply for the meeting, you will provide your preference for a talk or poster.

When: A welcome party will occur for everyone arriving on the evening of May 5th. The talks and poster sessions will be held May 6-7, 2023.

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

What will it cost? More good news here! We have received generous funding from the Gordon and Betty Moore Foundation. This will allow us to provide funding awards to select graduate student and postdoc presenters. Even without the awards, we have been good at keeping costs low: Advanced Registration (deadline April 1st, 2023) Students: $230, Postdocs $250, PIs $300 Late registration (deadline April 19th, 2023) Students: $260, Postdocs $280, PIs $330

Registration AND payment page is here: WILL OPEN SOON. STAY TUNED

Please make sure to REGISTER first then PAY WILL OPEN SOON. STAY TUNED

Please direct any questions to the organizers:

COVID SAFETY: 1. Attendees will be required to provide attestation of full vaccination status against SARS-CoV2 during the registration process. 2. Rapid antigen tests will be made upon arrival at the conference (provided by us) to provide an extra layer of safety for attendees.

Please direct any questions to the organizers:

Joel Sachs joels@ucr.edu

A. Carolin Frank cfrank3@ucmerced.edu

Joel L. Sachs *Professor & Chair, * Evolution Ecology & Organismal Biology University of California, Riverside Chair's Office 2745 Life Sciences Building Office (951) 827-6357 / Fax (951) 827-4286 / http://www.sachslab.com Zoom: http://ucr.zoom.us/my/Sachsevolution *Post address*: Sachs Lab - UC Riverside 3401 Watkins Dr., 1229 Spieth Hall, Riverside, CA 92521

Joel Sachs <joels@ucr.edu>

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GradStudentPositions

AuburnU QuantitativeGeneticsAdaptation

The Wolak Research Group (https://qgevoeco.com) at Auburn University (http://www.auburn.edu/cosam/-faculty/biology/wolak/index.htm) is looking for a graduate student (MSc or PhD) that is motivated to develop projects addressing key outstanding questions in evolutionary quantitative genetics. The student will be part of a NSF funded project over the next five years that will recruit high school, undergraduate, and graduate researchers as well as a laboratory technician and postdoctoral researcher to collaborate on the project. The group studies the link between evolutionary change and ecological processes acting upon variability among individuals in survival and reproduction and hence population growth, persistence, and structure. We measure natural and sexual selection, the quantitative genetic basis to trait variation, and population demography to quantitatively predict ecological and evolutionary dynamics. We also develop statistical methods and software.

We are seeking a student to work on the **Empirical Tests of the Fundamental Theorems of Evolution and Natural Selection:** The student will develop and test theory for the evolution of fitness using a combination of simulation, artificial selection, experimental evolution, and/or large scale mating designs with laboratory populations of seed beetles. There will be opportunities to collaborate with a postdoctoral research associate working on the project.

I encourage all interested students to contact me, by sending a CV and *brief* description of research interests to matthew.wolak@auburn.edu. PhD students are expected to develop their own research questions within the broader contexts outlined above. Students will also be expected to aggressively pursue fellowship and research funding opportunities and publish their research in high quality journals.

Deadline for admission to the program with guaranteed support (10 semesters of Graduate Teaching Assistantships, GTAs) is **February 1st**. Please **contact me immediately** to discuss the opportunity for an **on-campus visit**. More information is available on the webpages of the Dept. of Biological Sciences [http://www.auburn.edu/cosam/departments/-biology/index.htm] and DBS Graduate Studies Program [https://www.auburn.edu/cosam/departments/-biology/graduate_programs/index.htm] Auburn is a Tier 1 research institution with great facilities and research support. The university is situated in the quintessential college town of Auburn, Alabama and isï¿½ located close to several major cities (e.g., Atlanta and Birmingham are 1.5 and 2 hour drives away, respectively), the beaches along the Gulf and Atlantic coasts, and the Appalachian Mountains. Auburn graduate students enjoy a thriving community, recognized as one of the “best small towns in America,” with moderate climate and easy access to major international airports.

Matthew E. Wolak, Ph.D. Assistant Professor Department of Biological Sciences Auburn University 306 Funchess Hall Auburn, AL 36849, USA

https://qgevoeco.com Email: matthew.wolak@auburn.edu Tel: 334-844-9242

Matthew Wolak <mew0099@auburn.edu>

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AustinPeayStateU EvolutionaryBiol

Multiple M.S. Graduate Position in Biology at Austin Peay State University

The Department of Biology at Austin Peay State University (APSU) invites applications for admission to our M.S. program for Fall 2023. We offer both thesis-track and non-thesis track degrees. The program comprises approximately 35 graduate students supported by research and teaching assistantships. APSU (10,000 students) is located in Clarksville, TN, 45 minutes northwest of Nashville and is in close proximity to remnant prairies, numerous parks and public lands, and diverse aquatic ecosystems. For more information about the Biology Department and resources for research, please visitwww.apsu.edu/biology . The application deadline for Fall 2023 admission isMarch 1,although some positions may have an earlier submission deadline as noted below. For more information on application and admission requirements, see:https://www.apsu.edu/biology/-graduate/gradadmiss.php Please indicate if you are interested in the Thesis track or Non-Thesis track program. Because support of a faculty advisor is necessary for admission to the thesis-track plan of study, interested students should communicate with potential faculty research mentors as part of the application process.Support of a faculty research mentor is not required for admission to the non-thesis degree track.

The following faculty are recruiting students for the Fall 2023-24 academic year:

Rebecca Blanton Johansen (johansenr@apsu.edu):Research focal areas include evolution, phylogeography, and conservation of freshwater fishes and crayfishes. Students may pursue research that examines how environment influences trait variation in fishes, population and conservation genetics of imperiled aquatic taxa, or behavior of fishes providing parental care, among others.Minimum qualifications include: (1) a B.S. in Biology or a related field, (2) experience working with aquatic organisms and in aquatic environments, (3) excellent written and oral communication skills, (4) strong self-motivation and ability to work well independently and with a team. Preferred qualifications include experience in data collection, management and analysis using statistics. Candidates with preferred qualifications should be able to demonstrate the acquisition and application of their experiences outside of a traditional classroom setting. Successful applicants will be eligible for GTA support, with potential for additional summer support or support from pending grants. Access to field vehicles and all equipment and supplies for research will be provided.To apply, submit the following in a single PDF to Dr. Rebecca Blanton Johansen (johansenr@apsu.edu) by15 February 2023: (1) statement of research background and interests, (2) curriculum vitae, (3) names and contact information for three academic or professional references, and (4) unofficial copy of your college transcripts. Please seehttps://-sites.google.com/site/thejohansenfishlab/hometo learn more.

Mollie F. Cashner (cashnerm@apsu.edu):There will be one Master's student position open in the Cashner Lab starting in the Fall 2023 semester, with emphasis on North American minnow social behavior, reproductive biology, and/or population genetics. This position is not dependent on an externally funded grant and is eligible for GTA support and additional external funding support. Prospective students are encouraged to contact Dr. Cashner by17th Februaryvia email (cashnerm@apsu.edu).

C.M. Gienger (giengerc@apsu.edu):Ecology and conservation of reptiles. Two M.S. positions available for Fall 2023. Potential projects include quantifying energetics of reproduction in painted turtles, modeling distribution and habitat for helodermatid lizards (beaded lizards and Gila monsters) in the SW US and northern Mexico, link between stress physiology and metabolism in snakes, and geographic variation in body size of small mammals, lizards, and snakes.

Sergei Markov (markovs@apsu.edu):Research interests include: a) bacteriophage genome annotation; b) molecular hydrogen production by microorganisms and; c) microalgae for biofuels and chemicals.

Gilbert Pitts (pittsg@apsu.edu):Gonadotropin-releasing hormone (GnRH)comprises the final common pathway by which many variables impact animal reproduction. I am looking for students interested in examining the control and synchronization of GnRH secretion. Students in my laboratory use a variety of techniques such as cell culture, real-time PCR, enzyme-linked immunoassays and electrophysiology. Students are encouraged to contact me for further information.

Stefan Woltmann (woltmanns@apsu.edu):Behavioral and breeding ecology of birds associated with forested streams; survey and ecology of imperiled

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

Berlin MicroplasticsDiseaseEvolutionaryEcol

Project: "The influence of microplastic pollution on the outcome of host-parasite interactions (IMPACT)" (duration: 36 months)

The doctoral project centres on the implications of microplastic (MP) pollution in the context of parasitic infections, using the water flea Daphnia and its various natural pathogens as a model host-parasite system. Given that parasitism is one of the most common lifestyles on earth and can play important roles in many evolutionary and ecological processes, we propose to incorporate interactions between host species and their parasites as important new ecotoxicological endpoints to better assess the ecological consequences of MP pollution. In order to assess MP effects on the outcome of host-parasite interactions and to understand the mechanistic drivers of potential changes and related upscaling effects, several lab experiments will be conducted. For example, we will test if MP-induced changes in host resistance are related to: immune priming (transcriptome), re-allocation of host resources (life-history traits), and modification of the host gut microbiome (metabarcoding or shotgun sequencing). The successful candidate will join a team of researchers working on evolutionary ecology of disease < https://www.igb-berlin.de/en/wolinska >, microbiology, plankton ecology and modelling. The position is located at IGB in Berlin < https://www.igb-berlin.de/en >.

Your tasks

* Designing and performing experiments with the water flea Daphnia and its various natural pathogens by using different concentrations of MP * Isolation and processing of RNA of Daphnia and DNA of its microbiome * Statistical analyses of life-history traits and bioinformatic analyses of DNA and RNA data * Publication of results in scientific journals and presentation at conferences * Working actively on a doctoral dissertation

Your profile

* MSc or equivalent in Biology or related field * Demonstrated experience in experimental or molecular/genomic work * Ability to perform intense lab work (including micro- and mesocosm experiments, with an opportunity to join LakeLab <https://www.igb-berlin.de/en/lakelab> experiment) * Strong statistics and/or bioinformatic skills * Collaborative team worker * Good communication skills in English, including scientific writing

Our offer

We offer an exciting position in an international and dynamic team of researchers, and an attractive scientific working environment including excellent equipment and technical support. We foster flat hierarchies and active participation and offer a variety of training opportunities < https://www.igb-berlin.de/en/doctoral-education >. We actively support the reconciliation of work and family life < https://www.igb-berlin.de/en/-equal-opportunities >. Qualified women are particularly encouraged to apply.

The IGB is committed to diversity < https://www.fv-berlin.de/en/careers/diversity >. We welcome every application, regardless of gender and gender identity, origin, nationality, religion, belief, health and physical disabilities, age or sexual orientation. Disabled applicants with equal qualification and aptitude will be given preferential consideration. This is a position with 3 years duration and a tentative start date of 01.04.2023 (or shortly thereafter). Salary is paid according to the German salary scheme for the public sector for doctoral research (65% TVï¿½D). The working language at IGB is English.

Are you interested? We look forward to receiving your application (letter of motivation indicating research interests and experience, CV, certificates, contact information of two potential referees; as a single PDF document) by 10.02.2023. Please state the job reference number 36/2022 and apply exclusively via our recruitment platform at www.igb-berlin.de/-en/jobs. Enquiries can be directed to Prof. Justyna Wolinska < https://www.igb-berlin.de/en/wolinska > at justyna.wolinska@igb-berlin.de

https://karriere-igb.softgarden.io/job/26654029/-PhD-position-in-Disease-Evolutionary-Ecology-m-f-x-?jobDbPVId=66760088&lï ¿½

Justyna Wolinska Group Leader (IGB) & Professor for Aquatic Evolutionary Ecology (Freie Universitï¿½t Berlin)

justyna.wolinska@igb-berlin.de

+49 30 64181-686

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

Bern Switzerland Two GrasslandConservation

The Division of Conservation Biology at the Institute of Ecology and Evolution, University of Bern, Switzerland, offers: 2 PhD positions in conservation biology/restoration ecology within our research programme:

Restoring grassland biodiversity: from degraded, species-poor to integral stable-state ecosystems

The research programme was launched in 2018 with the objective to develop and evaluate the effects of current and novel grassland restoration methods for converting existing species-poor grasslands into biodiversity-rich, stable-state ecosystems. It comprises two modules: 1) a lowland module that experimentally tests pro-active restoration methods for hay meadows; and 2) a mountain module where passive restoration methods are investigated for enhancing the biodiversity of intensified grasslands. The successful PhD candidates will work either in the lowland or in the mountain module. Both experiments include a proper control, are carried out at the field-scale, i.e. with a given restoration treatment being randomly attributed to a whole field, and benefit from baseline data. Candidates will collect field data in order to monitor biotic and abiotic environmental responses to the experimental manipulations using a series of metrics for biodiversity (plant and invertebrate species richness, diversity indices, functional traits, community analyses, etc.), as well as hay productivity and quality. This multiple taxonomic group approach is necessary to embrace the whole ecosystem complexity, unveil underlying mechanisms and recognise possible antagonistic responses. Ultimately, the goal is to deliver evidence-based optimal grassland restoration policy guidelines. Candidate must hold a MSc degree, show a strong interest in agro-ecology and conservation, and master modern analytical techniques. Knowledge of grassland indicator taxa would be advantageous though not prerequisite. English literacy is important, while knowledge of German and French would represent a real asset, notably for dealing with farmers and authorities. Start: 1 May 2023 (or as soon as possible). Duration: 3â€4 years. Salary according to SNSF rules. The PhD student will have to contribute to teaching and will be in charge of some minor administrative duties. Email a letter of motivation with CV, list of publications, summary of MSc thesis, as well as two references (name, institutional address, email and phone number) to jean-yves.humbert@unibe.ch. Application deadline: 6 March 2023. Interviews in Bern foreseen on 3 April 2023. Note that the offer is pending on positive decision from the Swiss National Science Foundation.

PD Dr Jean-Yves Humbert University of Bern Institute of Ecology and Evolution Office: Erlachstrasse 9a Trakt 2 Mail: Baltzerstrasse 6, CH-3012 Bern Tel. +41 31 631 31 73 jean-yves.humbert@unibe.ch http://www.cb.iee.unibe.ch/-about_us/pd_dr_humbert_jean_yves/index_eng.html "jean-yves.humbert@unibe.ch" <jean-yves.humbert@unibe.ch>

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BielefeldU ChemicalEvolution

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

Research Position (PhD candidate) in Chemical Ecology ID: Wiss23015 - Start: as soon as possible - part-time 65 % - salary according to Remuneration level 13 TV-L - fixed-term

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

Your Tasks research tasks (95 %): - experimental work with freshwater gastropods - chromatographic analyses - collaboration with other researchers - preparation of contributions for scientific conferences - writing scientific publications for international journals

other tasks (5 %): - organizational tasks within the research group

The employment is designed to encourage further academic qualification

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

Your Profile We expect - completed scientific university degree (e. g. Master of Science or equivalent) in evolutionary ecology, chemical ecology, animal ecology, animal behavior or any related field - experience in experimental work with living animals - proven skills in chromatography (flash chromatography, analytical chromatography) or high motivation to rapidly acquire such skills - excellent oral and written English language skills - independent, self-reliant and dedicated style of work - strong organizational and coordination skills - ability to cooperate and work in a team

Preferred experience and skills - experience in chemical ecology - experience with high-performance liquid chromatography/electrospray ionization tandem mass spectrometry as well as with the systems Reveleris X2, MicroTofQ - experience in preparing scientific publications - experience with R - experience with antipredator phenotypic plasticity - experience with alarm cues - experience in working with gastropods or with the model species Physella acuta

Application Procedure

We are looking forward to receiving your application. For full consideration, your application should be received via either email (a single PDF document is required) sent to denis.meuthen@uni-bielefeld.de or post (see postal address). Please mark your application with the identification code: Wiss23015. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. For Information on the processing of personal data click here.

application deadline: 23.02.2023

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

Postal Address Universität Bielefeld Faculty of Biology Dr. Denis Meuthen Postfach 10 01 31 33501 Bielefeld

– Dr. Denis Meuthen Freigeist Fellow Bielefeld University Evolutionary Biology Konsequenz 45 D-33615 Bielefeld Germany denis.meuthen@uni-bielefeld.de https://scholar.google.ca/citations?hl=en&user=-lgw8cu4AAAAJ&view_op=list_works&sortby=-pubdate “Meuthen, Denis” <denis.meuthen@uni-bielefeld.de>

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Brunei Three GenomSystTropTreeFamilies

Full PhD-scholarships in Tropical Botany, Genomics, Systematics, Taxonomy and Biogeography available for August 2023/January 2024 enrollment in the University Graduate Research Scholarship Program (Universiti Brunei Darussalam).

For enrollment in these subjects, you will be placed within the Institute of Biodiversity and Environmental Research IBER, the biological research institute of Universiti Brunei Darussalam. I am seeking up to three highly motivated and productive international PhD students to engage in 3-year projects in Botany, Plant Genomics, Systematics, Taxonomy and Biogeography, with a focus on the evolution of major tropical tree families of Borneo and wider SE Asia. Combination of these subtopics is possible and can be further determined upon successful application.

Students will enroll in the University Graduate Research Scholarship Program (UGRS) at UBD for 3-year projects, with complete waivers for tuition- and housing-fees. Housing will be provided in the international student dormitories (The Core) on the UBD campus. Fellowships come with an ample monthly allowance for the full duration of the project, including a research grant to facilitate overseas research or conference visit. More information here: https://ubd.edu.bn/admission/-graduate/fees-and-funding(graduate)/ugrs.html

Applications are now invited for an intended starting

date of projects in September 2023 or January 2024. The application deadline is rolling, but incoming applications will be treated at a first come-first serve basis.

Applicants with a proven track record of previous publications in peer-reviewed journals, experience in molecular/genomic labwork, phylogenetics/phylogenomics analyses, bioinformatics (python/perl) and tropical fieldwork will have an advantage in applying. Proven proficiency in English is a requirement. Applicants will need to submit a short but competitive research proposal which will be decisive in the final selection process.

Opportunities for the development of individual research projects as well as collaborative work, exist within our institute and with external groups. Candidates will be integrated in a multidisciplinary team, providing a creative and stimulating research environment, and will work as part of a growing team studying genomics, evolution and taxonomy of selected plant taxa in Brunei and wider Asia. The working language in our research institute is English. Projects will be supervised by Associate Prof. Joeri Strijk (joeri.strijk@ubd.edu.bn) and interested applicants are invited to contact the PI directly.

Our research institute is part of Universiti Brunei Darussalam, which houses a wide range of laboratories and research groups near the South China sea coast in northern Brunei. With plant and molecular laboratories, a DNA bank and botanical garden, a new herbarium (IBER), remote tropical field station and other off campus research sites, the Institute of Biodiversity and Environmental Research (IBER) houses growing research facilities for the study and conservation of Brunei's spectacular biodiversity. More than 50% of Brunei is set aside as protected forests and these provide a major resource for the study of tropical biodiversity in a region that has seen dramatic forest reductions and conversion to palm oil plantations. Located in norther Borneo, Brunei is situated centrally in SE Asia with short flight times to major regional hubs such as Singapore, Bangkok, Kuala Lumpur, Taipei and Manila.

Please visit our website for more information on IBER, our members and research: https://iber.ubd.edu.bn/ To apply for a position, please email a 1-page statement of research interests and goals, a curriculum vitae, and the email addresses of three references directly to the project PI: Associate Prof. Joeri S. Strijk (joeri.strijk@ubd.edu.bn).

Review of applications will begin immediately and will continue until all positions are filled.

Joeri Strijk <alsophila1@hotmail.com>

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CharlesU Prague GenomicsConvergentAdaptation

***PhD position in Ecological genomics of convergent adaptation to extreme environments

Group of Ecological Genomics (Filip Koláø) Department of Botany, Charles University, Prague, Czech Republic https://botany.natur.cuni.cz/ecolgen Deadline March 13

When and under which circumstances does evolution repeat itself? Evolution is driven by a combination of deterministic forces and stochasticity, whose relative importance, however, remains a matter of debate. Knowing how predictable evolution is can provide insights into predictive evolution of crops, pathogens or species under climate change.

This project will address genomic basis and ecological consequences of convergent genome evolution in natural environments. By leveraging fascinating natural diversity of European Brassicaceae plants which repeatedly adapted to exceptionally strong selective pressure, toxic soils called serpentines, the project aims at uncovering general mechanisms determining which portion of the genome evolves in a predictable manner. The successful candidate will conduct extensive field sampling of 13 plant species, perform controlled common garden experiments and will be involved in population genetic analyses of genome-wide data. The project builds on our previous research in wild Arabidopsis (e.g. Koneèná et a. 2021 Nat. Comms., Bohutínská et al. 2021 PNAS) but will extend beyond this system in order to discern generality.

The project will involve close collaboration with other lab members and project partners across Europe, and the successful candidate should thus both be self-motivated and have a collaborative spirit. The successful applicant will join an established multidisciplinary team of Ecological Genomics at the Department of Botany funded by highly competitive Junior Star and Starting ERC projects.

The major aim of the thesis will be identifying the genomic basis of convergent adaptation to challenging serpentine substrate and uncovering evolutionary mechanisms underlying this adaptation. This will be achieved by the following tasks:

**fieldwork in natural serpentine habitats in the Balkans **controlled common garden experiments addressing adaptive response towards model stress environment (challenging soil) **population genomic inference of selection from available and newly generated genome-wide resequencing data

We offer

**creative and supporting atmosphere in an international team **membership to an international, diverse STARS PhD student community **additional interdisciplinary experience through local (M. Fendrych lab, Dept. of Experimental Plant Biology), and international collaboration (genomics, Univ. Nottingham, Univ. Munich) **competitive salary plus scholarship **fully covered health insurance and contribution to the social security system **support for establishment of foreign employees via the Staff Welcome Center of the University **work in the historical center of a vibrant cultural Prague city

We require

**strong motivation for interdisciplinary research at the border of ecology, evolutionary biology and population genomics **a MSc degree in Biology or related fields (in early fall 2023 at the latest) **good spoken and written English, communication at the Department is fully in English

Desirable but not required

**experience with designing and interpretation of ecological experiments **background in population genetics/experience with processing high-throughput sequence data **experience with independent fieldwork

Please submit your CV, contact details for two referees and a half-page motivation letter via the STARS PhD programme https://stars-natur.cz/. Review of the applications will begin on March 13 2023 and will continue until the position has been filled. The exact start date is negotiable.

For more info on the project and application procedure see https://botany.natur.cuni.cz/ecolgen/node/60 – Filip Koláø Department of Botany Faculty of Science, Charles University Benatska 2, CZ - 128 01, Prague, Czech Republic https://botany.natur.cuni.cz/ecolgen/

CharlesU ReptileReproduction

***PhD position in Origins and mechanisms of asexual reproduction in reptiles

Research group: Reptile reproduction (Lukas Kratochvil) Department of Ecology, Charles University, Prague, Czech Republic https://www.researchgate.net/-profile/Lukas-Kratochvil-2 Deadline March 13

Reptiles mostly reproduce sexually, but cases of facultative parthenogenesis have been recorded in several species and some lineages have even stopped sexual reproduction entirely. In most cases, obligate parthenogenetic lineages have arisen instantly through interspecific hybridization. However, the transition to obligate parthenogenesis could also be continuous, associated with the gradual spread of facultative parthenogenesis, its fixation in the population and the extinction of males. Each of these evolutionary pathways would be tied to a different cytological mechanism of unreduced egg production, which would affect the genetic variability of offspring and, consequently, of the population as a whole. The proposed PhD project is focused on testing the alternative evolutionary pathways to obligate parthenogenesis using molecular and cytogenetic techniques in selected reptile lineages. We offer work combining state-of-the-art methods in the laboratory, experiments with animals in our facility, and the opportunity to participate in field trips to the tropics. Moreover, we offer creative and supporting atmosphere, membership to an international, diverse STARS PhD student community, salary plus scholarship, fully covered health insurance and contribution to the social security system, support for establishment of foreign employees via the Staff Welcome Centre of the University, work in the historical centre of a vibrant cultural Prague city. We have been studying reptile sexual reproduction, especially sex determination, for 20 years and it is time to explore parthenogens! We are looking for a motivated PhD student with an interest in reproductive biology and evolution. Previous experience in bioinformatic analyses of genomic data or cytogenetics is advantageous, passion for reptiles essential.

Please submit your CV, contact details for two referees and a half-page motivation letter via the STARS PhD programme https://stars-natur.cz/. Review of the applications will begin on March 13, 2023 and will continue until the position has been filled. The exact start date is negotiable, we prefer October 1, 2023.

Lukas Kratochvil Department of Ecology Faculty of Science, Charles University Vinicna 7, CZ - 128 00, Prague, Czech Republic lukas.kratochvil@natur.cuni.cz

Luká Kratochvíl <kratoch1@natur.cuni.cz>

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Iberian PlantsAdaptationGenomics

We are searching for candidates to apply for an FPU Phd contract #FPU2022 to carry out a PhD thesis in plant evolution in the framework of a project at the Botanic Garden of Madrid, CSIC, and the University of La Coruega, UDC: "Understanding Iberian plant diversity: How cryptic speciation and hybridisation have shaped the evolutionary history of an enigmatic endemic genus?".

Please send your CV or request more information about the project or the FPU grants to: Gonzalo Nieto Feliner (Real Jarden Botenico de Madrid, CSIC) nieto@rjb.csic.es; Rosalea Pieeiro (Univ. de A Coruea) rosalia.pineiro@udc.es.

Contact deadline: 31st January 2023 (final submission deadline will be on the 15th February)

The project will focus on the evolution of the genus *Phalacrocarpum* (DC.) Willk. as a study system to explore how the diversity of Iberian lineages has been shaped. *Phalacrocarpum* is one of 27 genera of vascular plants endemic to the Iberian Peninsula. It is included in a tribe, Anthemideae (Asteraceae), with phylogenetic relationships still unresolved, and in which hybridisation seems to be an important evolutionary mechanism. The latest taxonomic treatment of the genus recognises a single species, *P. oppositifolium* and, on the basis of geographically associated leaf variation, three subspecies. The genus has been poorly understood taxonomically for decades, with hybridisation and cryptic speciation events being the most likely underlying causes. In this project, we will use NGS genomic data to investigate the evolution of this genus, with particular emphasis on the role of positive selection via fixation of advantageous alleles or negative selection via purging of deleterious mutations.

Rosalea Pieeiro

University of A Coruea

Botany - Biology

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Rosalea Pieeiro Portela <rosalia.pineiro@gmail.com>

IGB-Berlin EcoEvoDynamics

PhD POSITION IN THEORETICAL ECO-EVOLUTIONARY DYNAMICS (m/f/x)

The research group 'Eco-Evolutionary Dynamics' at the Department of Evolutionary and Integrative Ecology of IGB invites applications for a 3-year PhD position in Theoretical Eco-Evolutionary Dynamics starting earliest March 2023. The research group is located in Berlin-Friedrichshagen at Lake Müggelsee. We are seeking a highly motivated person who has a keen interest in theoretical questions about eco-evolutionary dynamics and has a passion for science.

The PhD project centers around eco-evolutionary community dynamics with a strong focus on theoretical work. The successful candidate will closely collaborate with a second PhD candidate and will focus on developing theoretical models (e.g., differential equation models) fitted to experimentally collected data. Specifically, the project will investigate questions at the interface of community ecology and evolutionary biology and will test interactions between specific processes of community ecology (species sorting, ecological drift and dispersal) and of evolutionary biology (selection, genetic drift and gene flow).

<Your tasks>

– Develop and apply differential equation modelling on large data sets and develop future scenarios of environmental change

– Participate in microcosm experiments using freshwater unicellular organisms tackling highly novel questions in eco- evolutionary dynamics (Year 1)

– Analyse large data sets and report results in scientific publications and conferences

– Prepare a doctoral dissertation

<Your profile>

– Master (or equivalent) degree in Theoretical Biology, Ecology, Evolutionary Ecology, Mathematics, Physics, or a related field

– Experience with modelling techniques using differential equations (in R, Matlab, or Python)

– Experience with handling large datasets and knowledge in statistics (in R, Matlab, or Python)

– High interest in eco-evolutionary dynamics, theoretical and conceptual questions, and modelling work

– Problem-solving mindset

– The working language of the group is English, and suitable reading, writing (including scientific writing) and speaking skills are required

– Engaged person with a team-spirit

<Our offer>

We offer an exciting position in an international and dynamic scientific environment including excellent equipment and technical support. Your career development is fostered by qualification and training opportunities. We actively support the reconciliation of work and family life. The position is for 3 years with a starting date earliest March 2023. Salary is paid according to the German salary scheme for the public sector (65% E13 TVöD Bund).

The IGB is committed to diversity. We welcome every application, regardless of gender and gender identity, origin, nationality, religion, belief, health and physical disabilities, age or sexual orientation. Qualified individuals of minority groups are especially encouraged to apply. Severely disabled applicants with equal qualification and aptitude will be given preferential consideration.

<Are you interested?> We look forward to receiving your application as a single PDF file including 1-page motivation letter, CV, publication list (optional), bachelor, master and other relevant certificates, and information of 2-3 references by 31.01.2023. Please apply exclusively via our recruitment platform at www.igb-berlin.de/en/-jobs, stating the job reference number 35/2022. Questions about the position or application can be directed to Dr. Lynn Govaert at lynn.govaert@igb-berlin.de.

"Research for the future of our freshwaters" is the mission of the Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB). The IGB is Germany's largest and one of the leading international research centres for freshwaters. We seek to understand the fundamental processes governing freshwaters and their communities. Our research findings help to tackle global environmental changes and to develop measures for sustainable water management. The IGB is a diverse and inspiring place to work and conduct research. We promote individual development at every career level and stand for lively exchange and cooperation. With more than 350 employees and guests from all over the world, we conduct research at five locations in Berlin and at Lake Stechlin (Brandenburg). IGB closely collaborates with numerous national and international universities and other partners in science and society and is a member of the Leibniz Association, which connects 97 independent public research institutes in Germany.

Lynn Govaert <lynn.govaert@igb-berlin.de>

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INRAE-StPee Nivelle EcoEvoMetap

Opportunity for a PhD position in the Evolutionary Ecology of metapopulation expansion at INRAE, Saint Pée/ Nivelle, France

We are looking for a motivated colleague (phd student) interested in studying how trade-off between life-history traits evolve during colonization and affect population adaptive dynamics. You will investigate the colonization of the subantarctic Kerguelen Islands by Brown trout, a well-documented study case since its introduction in the late 1960's. Depending on the candidate skills and motivation, the project could rely on several of the following approaches: (1) inferential statistics to characterize the trade-off between size and dispersal along the colonization front (based on long-term monitoring data); (2) experimental approach to measure the physiological costs associated to these traits based on the relationship between individual age and telomere erosion ; (3) population genomics to infer population demography and signatures of selection along the colonization front; (4) simulations with demo-genetic agent-based models already developed at ECOBIOP and (5) any other innovative approach proposed by the candidate. The PhD thesis will be funded through the successful application to the EDENE H2020 European call for grant of the University Pau & Pays de l'Adour (more information on EDENE can be found here:

https://recherche.univ-pau.fr/en/expertise/-european-projects/the-edene-doctoral-program/-presentation.html). If you are interested in applying to EDENE call, please contact us: jacques.labonne@inrae.fr and sylvie.muratorio@inrae.fr. We will help you preparing the written proposal of the PhD subject, that you will have to send to EDENE call with your full CV (deadline on 13th of March 2023).

Main point related to the position:

Research group ECOBIOP : https://www6.bordeaux-aquitaine.inrae.fr/st_pee_eng/UMR-Ecobiop Starting

date: September 1, 2023 (at the latest, cannot be postponed, EDENE constraint) The candidate must have spent have spent less than 12 months in France during the 3 last years (EDENE constraint) The candidate must have completed their Master 2 (or will have completed it before April/May 2023), Duration of contract: 3 years Location: City of Anglet (University Pau & Pays de l'Adour) and Saint-Pée/Nivelle (INRAE), France Type of Contract: Temporary Job Status: Full-time, i.e. 38 hours/week Project: Eco-evolutionary dynamics along a colonization front: founder effect, selection and trade-offs between traits in brown trout introduced to the Kerguelen Islands.

Sylvie ODDOU-MURATORIO Senior scientist/Directrice de Recherche UMR ECOBIOP Aquapôle INRAE 173 Route de Saint Jean de Luz

64310 Saint Pée sur Nivelle

Sylvie Muratorio <sylvie.muratorio@inrae.fr>

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Italy Germany BeePathogenSpillover

3 year PhD on pathogen spillover among bee species (deadline: 17 February 2023)

An exciting PhD position is available in a newly funded project to document and model the spillover of pathogens between honey bees and wild bee species on the island of Sardinia (Italy). The project is co-supervised by Prof Alberto Satta and Dr Michela Pusceddu at the University of Sassari (Sardinia: https://en.uniss.it), where the incumbent will be enrolled, in collaboration with Prof Robert Paxton at the University of Halle (Germany: https://www.zoologie.uni-halle.de/allgemeine_zoologie/?lang=en). The overarching goals of the project are to understand the magnitude and directionality of transmission of pathogens within and between bee species and model spillover in relation to local and landscape factors. Fieldwork will be on the beautiful island of Sardinia while molecular detection of pathogens will be in Halle.

We seek a highly motivated candidate with an interest in host-parasite relations and skills or a background in entomological field sampling and experimentation, or molecular techniques for screening pathogens. Two prerequisites are a valid driving licence and the ability or willingness to work with bees. The position is expressly for non-Italians.

The salary is on the standard Italian PhD scale. Further details of the project and the application process can be obtained from Michela Pusceddu (mpusceddu@uniss.it) and Robert Paxton (robert.paxton@zoologie-uni-halle.de). Applications must be in English and should be made on-line at the University of Sassari (https://www.uniss.it/bandi/bando-pnrr-xxxviii-ciclo) by 17 February 2023. Interviews are planned for the 23 February 2023.

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

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Kiel Germany SpongeReproduction

Dear EvolDir,

The Research Unit on Marine Symbioses at the GEOMAR Helmholtz Center for Ocean Research (Kiel, Germany) is seeking a prospective doctoral student.

The project will use field work, transcriptomics, and microscopy to understand the evolutionary basis of the transmission of an obligate symbiont and the functional role of this obligate symbiont in the reproduction and development of the sponge Halichondria panicea. This project is in close collaboration with Dr. Ana Riesgo and her team at the National Museum of Natural Sciences (Madrid, Spain).

Applicants will work with Dr. Tyler Carrier (tcarrier@geomar.de) and Prof. Dr. Ute Hentschel Humeida (uhentschel@geomar.de) to acquire third-party funding for their salary. Please e-mail us with a letter of interest and a CV if this opportunity is of interest.

Regards,

Tyler

Tyler J. Carrier, Ph.D. Marine Symbioses Research Unit GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany D-24105 e-mail:tcarrier@geomar.de Webpage|Google Scholar|ResearchGate

"Tyler J. Carrier" <tcarrier@geomar.de>

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LMU Munich MarineMammalSpeciationGenetics

PhD Position in Speciation Genetics of Keystone Marine Mammal Species

A PhD position investigating the role of hybridization in species diversification and colonization of novel environments is available in the Wolf Lab at LMU Munich.

Background

Speciation genetic research is concerned with the ecological, demographic and genetic processes underpinning population divergence. Using a combination of ecological modelling and population genomic methodology we can retrodict a species history and try to identify the main features that accompany population splits. An increasing number of genome-scale studies documents that populations often dont adhere to simplified models of bifurcation, but are much rather characterized by extensive periods of gene flow.

The Project

The Californian (Zalophus californianus), the Galapagos (Zalophus wollebaeki) and Steller sea lion (Eumetopias jubatus) are three related pinniped species with a distribution range spanning from the Northern Pacific to the Galapagos archipelago on the equator. A recent study suggests that they share a very recent evolutionary history that is characterized by extensive hybridization (1). Each of the species also shows reduced gene flow between sub-populations. For instance, in the Galapagos archipelago, two genetically differentiated ecotypes emerged that differ in morphology and foraging ecology (2). In the Steller sea lion, several stocks have been described with important consequences for conservation management.

The goal of this project is to clarify the evolutionary history within and between the three species in light of their sexual behavior (skewed operational sex ratios), movement ecology (sex-biased migration) and external, large-scale perturbations caused by Pleistocene glaciation events. Methodologically it implies state-of-the-art evolutionary genetic inference methods based on whole-genome sequences (incl. A, X and Y chromosomes) of modern and ancient samples, as well as climate and habitat reconstruction analyses.

Qualifications

The successful, applicant holds a master degree in a relevant subject and is skilled in bioinformatic analyses with large genome-wide data sets. Previous experience with phylogenetic methods, coalescence theory, population genetic methods, demographic or habitat reconstruction is a clear asset.

Research environment of the host lab

The Wolf lab applies an integrative approach to explore micro-evolutionary processes and genetic mechanisms underlying species divergence, adaptation and genome evolution (3, 4). Using large-scale genomic approaches combined with field based experiments, we characterize genetic diversity within and between populations and assess its relationship to phenotypic divergence (58) sometimes interpreting the data under a conservation angle (9, 10). In addition, we explore methodological aspects of data analyses (11, 12) and investigate the evolutionary forces shaping genomes (13, 14). Empirical systems currently include birds (swallows, cuckoos and corvids (68, 15, 16), marine mammals (pinnipeds and killer whales) (10, 17) and fission yeast (18, 19). More information on the research activities in the lab can be found at http://www.evol.bio.lmu.de/-research/j_wolf/index.html . The lab is based at University of Munich (LMU) and the Max-Planck Institute for Biological Intelligence (Seewiesen Campus https://-www.youtube.com/watch?v=ot4bvYitUNU). Both institutions are consistently ranked top worldwide and are embedded in the large Munich life science campus offering excellent technical facilities and many interaction possibilities including the Gene Centre, several other Max-Planck-Institutes and the Helmholtz Centre (http://www.campusmartinsried.de/en/336-2/#). With the highest concentration of supercomputing in Germany the Leibniz Supercomputing Centre and its local partners provide access to state-of-the art computing facilities (https://www.lrz.de/english/). Munich, Bavarias capital, is a vibrant, yet relaxed city with many traditions still alive, a high quality of living and the Alps nearby.

How to apply

Applications are handled through the International Max-Planck-Research-School (IMPRS). Please indicate your interest directly to j.wolf@bio.lmu.de and hand in your application through the IMPRS system at https://imprs-bi.mpg.de/ . Literature reflecting lab interests

1. F. Lopes et al., Syst. Biol. 70, 786802 (2021).

2. J. B. W. Wolf et al., BMC Evol. Biol. 8, 150 (2008).

3. J. B. W. Wolf, H. Ellegren, Nat. Rev. Genet. 18, 87100 (2017).

4. J. V. Peñalba, J. B. W. Wolf, Nat. Rev. Genet. 21, 476492 (2020).

5. A. B. A. Shafer, J. B. W. Wolf, Ecol. Lett. 16, 940950 (2013).

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LundU aDNA Diseases

A Ph.D. student position in Paleogenetics and infectious diseases

Overview:

The Elhaik and Carlsson labs are seeking a motivated and enthusiastic Ph.D. student to study the population history of human populations and how they responded to infectious diseases

Deadline for applying: 20 Feb 2023 Start date: ASAP

Lead supervisor: Dr. Eran Elhaik (Lund University, Sweden) https://portal.research.lu.se/en/persons/eran-elhaik Co-supervisors: Dr. Fredric Carlsson (Lund University, Sweden), https://portal.research.lu.se/en/persons/fredric-carlsson The project:

Ancient DNA (aDNA) has changed history studies, enabling us to analyze early genetic variation directly. In recent years, there has been a sharp increase in the amount of collected aDNA and high-profile investigations. Still, insufficient information about the geographical origin and admixture has limited the usefulness of the collected data. The project aims to develop population genetic models and investigate population history in human populations. We ask questions like how, where, and when populations migrated, how they respond to epidemics, and the timing, rate, and extent of adaptive evolution in response to infectious diseases or environmental changes. Candidates are expected to be interested in biology and history alongside solid computational skills in at least two coding languages. The position is suited for someone trained in population genetics/ evolutionary genomics or someone with a strong quantitative background in statistics, physics, computer science, and/or a related field. The candidate will work jointly with Dr. Elhaik, Dr. Carlsson, and experts in the field to develop statistical methods for projects in population genetics and infectious diseases. This is a multi-disciplinary project involving programming and modeling. The successful applicant will develop and apply state-of-the-art paleogenomic tools and write up the results for publication in scientific journals. The project will involve collaborations with researchers in other disciplines, including biostatistics (e.g., association studies), cell biology, epidemiology, and molecular biology. It is also expected that the successful applicant will participate in the daily activities at the MCBU. Candidates are expected to have a strong grounding in programming in python (essential), Javascript (strongly recommended), R (essential), and math/statistics. Knowledge and experience with Machine Learning methods are advantageous. A doctoral studentship is a fixed-term employment of a maximum of 5 years (including 20% departmental duties).

The team: The Ph.D. student will be embedded within Dr. Eran Elhaik's lab (http://www.eranelhaiklab.org/) in the Biology Department at Lund University's excellent research environment.

Unlock the evolutionary history of humankind by joining our dynamic research team at the forefront of cutting-edge scientific discoveries. As a Ph.D. student in our department, you will be immersed in a stimulating environment with diverse research groups exploring the latest advancements in biology, bioinformatics, and computation. You will have the opportunity to delve into the fascinating world of genetics and develop cutting-edge models to answer some of the most intriguing questions in the field. From investigating ancient migration patterns to understanding how populations respond to epidemics and environmental changes, you will be at the forefront of scientific discoveries. With a comprehensive training plan tailored to your needs, you will gain the skills and knowledge needed to become an expert in your field and make a meaningful impact on the world of science. We have state-of-the-art resources and labs to give you the opportunity to make a lasting impact on our understanding of our genetic history. Collaborate with top supervisors and researchers from around the globe as you work towards successfully completing your project.

How to apply: To apply, see: https://lu.varbi.com/en/what:job/jobID:586284/ Contact Dr. Eran Elhaik for questions eran.elhaik@biol.lu.se

Eran Elhaik <eran.elhaik@biol.lu.se>

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NorthernArizonaU TreeAdaptation

PhD student in tree genomics and evolution

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

Minimum qualifications:

- MSc degree in Genetics, Forest Sciences, Biology, Evolutionary Biology, or related fields of study.

- Graduate courses in Genetics and Evolution.

- Experience with R, and Perl or Python (familiarity with Linux is a plus)

- Molecular lab experience.

- Availability to start by July 1st, 2023.

How to apply: Please send a 1-page statement of interest, CV, unofficial copy of transcripts, GRE scores, and TOEFL scores (international students), and the names and contact information of 3 references by February 15th, 2023. If found to be a good match for the position, you will be encouraged to apply to the graduate program at NAU.

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

Amanda De La Torre <Amanda.de-la-Torre@nau.edu>

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Prague PlantEvolution

PhD position in ecological epigenetics at the Institute of Botany in Prague, Czechia

We are looking for a motivated colleague (phd student) interested in studying the role of epigenetic variation (DNA methylation) in plant ecology and evolution. You will investigate the role of biotic (mycorrhiza and fungal pathogen) and abiotic interactions on the induction of transgenerational effects and their role in adaptation of a clonal plant. More information can be found here: https://www.ibot.cas.cz/en/vacancies/doctoral-position-in-the-department-of-population-ecology/
Latzel Vï¿½t <Vit.Latzel@ibot.cas.cz>

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StockholmU EvolEcolFertilityReannouncement

Reannouncement of PhD position in Evolutionary Ecology in the Snook Lab at Stockholm University.

Note this is the same one advertised on EvolDir December 20th-ish but readvertising due to the original ad being overwritten by a similarly titled PhD opportunity.

The Snook lab at Stockholm University is seeking a fully funded 4 year PhD student to begin as soon as possible. We study the evolutionary ecology of reproduction and genetic mechanisms underlying adaptation and plasticity. Our main study organisms are insects, including Drosophila and butterflies. Working language in the lab is English.

The PhD project investigates the consequences of climate warming on butterfly reproduction. Thermal sensitivity of reproduction is well-known but the extent to which climate warming may affect population persistence and affect response to climate change is broadly unknown. The project will take a comparative approach using sister taxa from Pieridae and Nymphalidae that vary in host plant use, voltinism and geographic distribution. Critical and fertility thermal limits will be determined in the laboratory across species and across populations of each species. Traits that associated with thermally induced sterility will be determined and then used in field work throughout Spain to establish the ecological relevance of thermal fertility limits via surveys of natural populations. Using citizen science data on butterfly distribution and abundance, the project aims to link experimental data on predictors of thermal fertility limits with field data on fertility loss to generate more evolutionarily realistic models to improve forecasts of species responses to future climate change scenarios. Thus, the project is searching for a candidate with good

knowledge in insect ecology, thermal biology and/or evolution. Experience of fieldwork, insect rearing, and a good grounding in statistics are considered important qualifications.

Applications are received through the ReachMee portal of Stockholm University. You must have a Masters degree before starting the position and the application will require contact details for 2-3 references along with a 2 page maximum cover letter detailing your previous research and your specific interest in this project.

Application deadline is February 15, 2023

For more information, please contact Professor Rhonda R Snook (rhonda.snook@zoologi.su.se)

Follow this link to be directly taken to the advertisement and application process.

https://www.su.se/english/about-the-university/-work-at-su/available-jobs/phd-student-positions-1.507588?rmpage=job&rmjob=19709&rmlang=UK For the advertisement in Swedish, follow this link. https://www.su.se/om-universitetet/jobba-p%C3%A5-su/lediga-jobb/doktorandplatser-1.507590?rmpage=-job&rmjob=19708&rmlang=SE Rhonda Snook <rhonda.snook@zoologi.su.se>

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StockholmU EvolutionaryEcology

The Gotthard lab at the Department of Zoology at Stockholm University is looking for a new PhD student. The position is 4-year, fully funded and will start as soon as possible. Karl Gotthard research group is focusing on the evolution of life history and plasticity in seasonal environments, using primarily natural populations of butterflies as model organisms.

The new PhD project will focus on the evolution of life cycle timing in situations where insect species show rapid distributional changes as well as shifts in the number of annual generations, i.e. when there are shifts in voltinism. These two phenomena, range shifts and voltinism shifts, are common consequences of climate change affecting insects and they both induce strong gradients of selection on seasonal life cycle regulation and life history traits. The project aims at testing general predictions from life history theory and explore phenotypic and genetic footprints of selection that are associated with life cycle regulation in these situations. In particular the new project aims at exploring Ecological genetics and genomics of seasonal life cycle regulation and will explore the genomic background and genetic architecture of adaptations for seasonal plasticity using three different species of butterflies that are well established ecological models in the Gotthard lab. We aim to test fitness effects of this genetic variation in both field and laboratory experiments. The project will build on existing ecological knowledge, well developed laboratory and field methods, as well as genomic resources that are in place for all three species. The specific research direction for the PhD project can be discussed in relation to the interests and skills of the new student. We expect the project to provide novel insights into ecological and evolutionary consequences of climate change on traits that are central for the persistence of natural populations.

The project will contain aspects of both field and laboratory work to study the ecology, genetics and genomics of life cycle timing of temperate butterflies. In collaboration with other group members the prospective student will sample replicated populations (across Scandinavia and Europe) and do controlled laboratory studies of how phenotypic adaptations and associated genetic variation is changing across gradients of selection. The genetics will be studied by quantitative genetic methods, selection experiments as well as functional genomics, including the use of CRISPR/Cas9 to manipulate already established candidate genes. Finally, we will use reciprocal transplant experiments in outdoor cages to test the adaptive significance of local difference in these adaptations.

We are looking for candidates with a strong interest in evolutionary ecology, genetics and life history theory, with excellent analytical skills and experience with quantitative analyses of life history traits and genetics. Experience in working with insects in the lab and in the field, as well as having a valid driver's license, is especially meriting. To be eligible you need to have a research degree (e.g. Master), or equivalent experience when starting the position.

Applications are received through the ReachMee portal of Stockholm University.

Application deadline is February 15, 2023 For more information, please contact Professor Karl Gotthard (karl.gotthard@zoologi.su.se)

Follow this link to be directly taken to the full advertisement and application process.

https://www.su.se/english/about-the-university/-work-at-su/available-jobs/phd-student-positions-

1.507588?rmpage=job&rmjob=19809&rmlang=UK
Carl Gotthard <Karl.Gotthard@zoologi.su.se>

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StockholmU Two AncientDNA

The Department of Geological Sciences at Stockholm University invites applications for two four-year PhD positions based at the Centre for Palaeogenetics (CPG) on the Stockholm University campus.

The PhD projects are part of the DeepTime sedimentary ancient DNA (sedaDNA) research program funded by a Knut and Alice Wallenberg Foundation Academy Fellowship, with the goal of investigating biodiversity turnovers at glacial-interglacial transitions throughout the last 800,000 years. You can read more about the projects at https://kaw.wallenberg.org/peter-heintzman . The PhD students will join the research group at CPG led by Peter Heintzman. CPG has world class facilities and expertise for generating and analyzing sedaDNA data. The selected candidates will be expected to publish their results in peer-reviewed scientific journals and present their findings at international/national conferences.

Terrestrial ecosystems PhD project: The project will aim to reconstruct plant and animal communities of terrestrial ecosystems from permafrost of northwestern North America, using state-of-the-art sedaDNA techniques. The project will initially focus on Late Pleistocene sediments with the goal of targeting sediments up to 800,000 years old. The project will take advantage of samples already in storage at CPG, with additional fieldwork planned in 2023 and 2024.

Marine ecosystems PhD project: The project aims to reconstruct planktonic and benthic communities of marine ecosystems from the Arctic Ocean, using state-of-the-art sedaDNA techniques. The project will initially focus on recent sediments to provide bench-marking data with the goal of targeting sediments up to half a million years old. The project will take advantage of an extensive archive of marine sediment cores housed at the Department of Geological Sciences, with the possibility of additional fieldwork in 2024.

Qualifications The applicant must have completed a masters degree and completed courses equivalent to at least 240 higher education credits, or have otherwise acquired equivalent knowledge in Sweden or elsewhere. To be considered, an applicant's masters degree should either be awarded or close to completion.

The general syllabus for doctoral studies stipulates that applicants should have at least 90 credits in geosciences, at least 30 credits in mathematics, physics, chemistry and/or biology. Importantly for these interdisciplinary PhD projects, candidates with primary training in the broader natural sciences, such as biology, genetics, bioinformatics, and chemistry, are eligible and strongly encouraged to apply. We particularly encourage candidates with degree projects that include studies of sediments, (paleo)ecology, ancient DNA, molecular biology, paleogenomics, metagenomics, bioinformatics, or a similar subject.

Selection The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative, and independence.

The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position.

Application Apply for the PhD student position at Stockholm University's recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the advertisement, and that it is submitted before the deadline.

Full application requirements and instructions can be found at https://www.su.se/english/-about-the-university/work-at-su/available-jobs/-phd-student-positions-1.507588?rmpage=job&rmjob=-19639&rmlang=UK . Closing date: 15 January, 2023

Contact For more information, please contact Dr. Peter Heintzman, peter.d.heintzman@geo.su.se. https://-palaeogenetics.com/peter-heintzman/ Peter Heintzman <peter.d.heintzman@geo.su.se>

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TrentU DesertSucculentEvolution

PhD project - Eco-evolutionary dynamics of desert succulents (Lithops spp.) from southern Africa

The Integrative Wildlife Conservation lab at Trent University, in collaboration with the Lithops Research and Conservation Foundation, is offering a unique PhD project on the eco-evolutionary dynamics of Lithops spp., a genus of small succulent plants occurring across desert landscapes in southern Africa. In the wild, Lithops are susceptible to rapid decline mostly from anthropogenic causes, and important knowledge gaps related to Lithops phylogeny and evolution are impeding sound conservation status assessment and population restoration efforts. The project will consist of Lithops full-genome sequencing to support a thorough re-assessment of the phylogeny and evolutionary linkages across 100+ isolated Lithops populations (some now extinct) for which we have original seeds/tissue. Following phylogenetic reconstruction,the project will involve assessing functional genomics and epigenetic responses to environmental variation, both in an experimental context in the lab as well as in the field in southern Africa. Additional work will examine evolutionary divergence between isolated populations and adaptations to local environmental conditions. Multiple graduate projects are expected and the PhD student will have the opportunity to develop specific research questions within the scope of the larger project.

Successful candidates MUST have an MSc in Evolution, Genetics, Ecology or related field, demonstrated evidence of peer-reviewed publications, strong lab and quantitative skills, and an interest in working collaboratively within a large and diverse research group. Additional desirable qualifications include DNA sequencing, bioinformatics, remote sensing and GIS analysis.

To apply, send a cover letter, curriculum vitae, unofficial academic transcript, and contact information for 3 references to: Dennis Murray (dennismurray@trentu.ca).

For additional details, see www.dennismurray.ca and www.lithopsfoundation.com . The position will be filled as soon as a suitable candidate is found.

Dennis Murray

CRC in Integrative Wildlife Conservation, Bioinformatics, and Ecological Modeling

Director, Bioenvironmental Monitoring and Assessment graduate program Trent University

Peterborough, ON

CANADA

www.dennismurray.ca dennis murray <dennismurray@trentu.ca>

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TrierU EcologicalGenomics

PhD student position in Ecological Genomics at Trier University

We offer a 36-month PhD position in the lab of Susan Kennedy and Henrik Krehenwinkel in the Department of Biogeography at Trier University in Germany. The project “Monitoring metaorganisms across space and time - Eco-evolutionary responses of the earthworm holobiont and soil biome to environmental” is funded by the Bauer-Stiftung zur Förderung von Wissenschaft und Forschung. You will be working on a project aimed at identifying biodiversity change in soil ecosystems over the past four decades, using eDNA metabarcoding, metagenomics and metatranscriptomics. The project is based on highly standardized time series samples of earthworms and earthworm gut content, which have been collected as part of a long-term German biomonitoring project, the German Environmental Specimen Bank. Storage of these samples at ultra-low temperatures guarantees excellent preservation of the sample-associated nucleic acids and survival of some strains of soil microbes. Earthworms can serve as natural eDNA samplers, whose gut content represents the biodiversity of the surrounding soil. In this project, we will analyze the assembly of the earthworm’s microbiome and the surrounding soil community using 40-year time series from across Germany and identify drivers of community change. In addition, selected strains of microbes will be resurrected and cultivated to trace evolutionary change in the soil biome in real time.

Applicants should hold a university master’s degree in biology (or comparable) and have a keen interest in evolutionary biology and ecology. Ideally, you should also have experience with DNA metabarcoding and metagenomics. This is a research position and does not require teaching.

Severely disabled applicants who are equally qualified

for the position will be given preference. Details on the use of personal data can be found in the data privacy statement in Article 13 DSGVO on our homepage.

Please send your application (letter of motivation, CV, transcripts and the names of two references) as a PDF document in English or German language to Henrik Krehenwinkel (krehenwinkel@uni-trier.de) by February 20th, 2023. Any project-related questions can also be addressed to Henrik Krehenwinkel.

Prof. Dr. Henrik Krehenwinkel Biogeography Trier University phone: +49-(0)651-2014911 < http://biogeographie.uni-trier.de > https://www.uni-trier.de/index.php?id=67447 Henrik Krehenwinkel <krehenwinkel@uni-trier.de>

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UBath ArthropodEvolution

PhD Project on Arthropod Evolution

Come to the Milner Centre for Evolution and do a PhD on the Evolution of Complexity in Arthropods

https://www.findaphd.com/phds/project/evolution-education-trust-phd-project-complexity-and-convergence-in-arthropod-evolution/?p152941 Matthew Wills <bssmaw@bath.ac.uk>

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UBern MetacommunityDynamics

Three 100% funded PhD (3-4 years) or Postdoc (2+ years) positions are available in the establishing research group of Evolutionary Game Theory led by Professor Xiang-Yi Li Richter at the University of Bern, Switzerland. The positions are part of the Swiss National Science Foundation Starting Grants project "Integrating modeling and experiments to study species coexistence in metacommunities."

The specific PhD or Postdoc projects will be developed individually and should focus on using a combination of theoretical and empirical approaches to study how coexistence between interacting microbial species/strains can be maintained in spatially heterogeneous and temporally changing metacommunities, such as in soils, fermented foods, and the human gut and skin microbiota.

We aim to answer the following central questions: 1. How do higher-order multi-species biological interactions play out in heterogeneous spatial networks? 2. How do the dispersal network topology and dispersal rate influence the likelihood of coexistence? 3. Does the evolution of traits in each species promote or impede coexistence? Is coexistence more likely when the interacting species coevolve?

One of the three projects will focus on the empirical side, involving experiments with microorganisms (e.g., phage and bacteria interacting on dispersal networks formed by fungal hyphae). The other two projects will be mainly theoretical, involving mathematical modeling, computer simulations, statistics and data analysis.

<Your profile> Candidates must be highly motivated, creative, and able to work independently and collaboratively. Applicants from diverse scientific backgrounds (e.g., physics, mathematics, computer sciences, and biology) are encouraged. In their motivation letters, applicants from outside biology should state why they are interested in the study of ecology and evolution, and applicants from biology should state why they are interested in collaborating with theoreticians. In addition, candidates should explain how their study and research experience links to the central questions of the research project, and why they are interested in studying them. Candidates who intend to work on the empirical side need to have solid experimental skills to work in a microbiology lab. Candidates who intend to work on the theoretical side should have excellent mathematics and programming skills, and ideally, experience working on an HPC cluster.

Candidates need to have good written and spoken communication skills in English, which is the working language of our institute. For the PhD positions, a Master's degree is required. For the Postdoc positions, a PhD degree is required. The positions are open to applicants worldwide. We are committed to increasing diversity, equity, and inclusiveness in evolutionary biology and especially encourage applicants from underrepresented groups.

The desired starting dates are negotiable but ideally between September and December 2023.

<We offer> The gross salary is around 48K CHF per year for PhD students and 80K CHF per year for postdocs. We offer a stimulating research environment with

access to high performance computation facilities, funding for presenting studies at international conferences at least once a year, and unlimited funding for publishing peer-reviewed articles in open access journals. The city of Bern is ideally located in the middle of Switzerland and Europe, and provides rich cultural and outdoor activities.

<Contact and application> For informal inquiries regarding the position and for submitting your application, please send an email to Prof. Xiang-Yi Li Richter at "xiangyi.li.richter@unibe.ch". The review of applications will start on March 1st, 2023 until the positions are filled. Applicants must submit one merged PDF file that includes a letter of motivation (max 2 pages), a CV, and names of two referees who have agreed to provide a letter of recommendation if contacted, and copies of relevant publications and/or preprints. Incomplete applications will not be considered.

Xiang-Yi Li Richter (Dr. rer. nat.) Institute of Biology University of Neuchâtel Rue Emile-Argand 11 CH-2000 Neuchâtel Switzerland

I work flexibly and do not expect a response or action outside of your own working hours.

xiangyi.li.richter@unibe.ch

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UDortmund EvolGenetics

Two PhD positions in Evolutionary Genetics available

We seek two enthusiastic students interested in pursuing a PhD in the EvoGen lab (https://tgossmann.github.io/, principal investigator Prof Toni Gossmann) at TU Dortmund University (https://www.tu-dortmund.de/). Our new lab focuses on experimental approaches and data analysis to identify imprints of selection in natural populations, making use of newly available biodiversity data produced through next and thirdï¿½ generation sequencing approaches.

Projects

(I) What genomic regions are involved in short-term climate adaptation? The aim of the project is to address this fundamental question by investigating the role of genomic and epigenomic responses in avian species across the species spectrum, using the great tit (*Parus major*) species complex as a model. This study will combine fieldwork, computational approaches (e.g. simulations, bioinformatics) as well as novel sequencing approaches and their data analysis+interpretation. A participation in fieldwork is anticipated, but training will be provided.

(II) How can we trace adaptive evolution over extremely short and long evolutionary time-scales? Aim of this project is to apply and develop new methods to detect the action of adapation in the evolutionary process. This project will investigate adaptation through time-series data as well as a major contributor to long-term evolution using comparative approaches and ancestral reconstruction of DNA.

Requirements and position details

The applicant needs to hold a **Master or equivalent degree** in biology, bioinformatics or a related discipline at time of start date (a Bachelor is not sufficient) with a background or interest in **at least one** of the following subjects:

- evolution - third/next generation sequencing - climate change - genomics and biodiversity - disease biology

Anticipated start date for both PhD positions is summer semester 2023 (**1.4.2023**), though the exact start date is negotiable. The position is open to National and International students (EU and worldwide) and funded for 3 years (TV-L E13, 65%).

Some exposure to statistics and programming is expected, though mastery of these tools is not required and there will be ample opportunity to continue to build and refine your skills through mentorship and collaboration in our lab. Wet-labï¿½ (e.g. DNA extraction from tissues) and/or field work experience is a plus.

How to apply

Interested students are encouraged to send the following materials:

- Cover letter (Discussing their interest in science, joining the lab and project preference) - CV - Copies of undergraduate and (if applicable/possible) graduate transcripts

to **Prof. Toni Gossmann** (toni.gossmann@gmail.com) preferably as a **single PDF** including the identifier **PhD position Evogen** in the Email subject line. Review of applications will begin 23.1.2023, applications will be accepted until posts are filled.

Full position ad: https://tgossmann.github.io/-files/PHD-AD1.pdf Toni Gossmann <toni.gossmann@googlemail.com>

(to subscribe/unsubscribe the EvolDir send mail to

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

UEssex CrossLabsJapan EvolutionBioacoustics

Funded PhD studentship in bioacoustics & machine learning based at University of Essex, UK and Cross Compass, Cross Labs, Japan

About the Project: Based at the University of Essex (UoE) with a 1.5 year industry-placement as a Visiting Research Student within Cross Labs, Japan, this PhD project will achieve new insights into animal bio-acoustic signalling and potential industrial applications, using new development and applications of machine learning, including attentional AI. In turn, the insights gained through these new biological applications will be assessed for novel machine learning developments, such as the classification of human voices and analysis and use of multi-layered signals.

Supervision and training: Project supervision will be provided by Dr Jennifer Hoyal Cuthill (University of Essex) and Dr Olaf Witkowski (Cross Compass, Cross Labs), with additional input from project collaborators. The PhD candidate will be registered at the University of Essex, with full funding available for UK home student tuition fees and a full UK stipend while at UoE. As an integral part of the PhD, the student will also undertake a fully funded, 1.5 year placement within Cross Labs, an AI research institute within the company Cross Compass Ltd., Japan (with offices in Kyoto and Tokyo). Cross Labs is experienced in hosting visiting students and will offer a range of support to the student. This includes additional financial support, relative to a standard UK PhD studentship, with an enhanced stipend for the time in Japan

What we are looking for: This interdisciplinary project, across biology and computer science, would suit a creative thinker with strong interests in both fields and the capacity and enthusiasm to rapidly learn new things. We welcome applicants with a 1st class or 2:1 BSc (or equivalent) in biology, computer science or any related field. The project will require strong skills in programming (e.g. Python), machine learning and data analysis, including recent machine learning techniques and computer simulation. Involving two countries, the enthusiasm and resilience for international travel will also be needed.

PhD and funding details: This studentship is a 3 year + 1 year funding award that may be taken full-time or part-time. To be eligible for full funding you must be eligible for UK home fees at the time of the studentship (i.e. meeting UK residency requirements). The anticipated start date is 5th Oct 2023, or earlier (subject to agreement by the supervisors).The studentship will provide the PhD candidate with a costs of living stipend equal to UKRI rates and cover UK resident tuition fees. International applicants are eligible to apply but will have to demonstrate funding to cover the difference between UK and International tuition fees, which is approximately ï¿½14,800 p.a. at present.

Further Information: Please contact Dr Jennifer Hoyal Cuthill (j.hoyal-cuthill@essex.ac.uk) for further information about the project.

How to apply for this studentship: To apply, email your CV to Emma Revill (ecrix@essex.ac.uk). Deadline for applications is Feb 28th 2023, 23:59 UK time.

"Hoyal Cuthill, Jennifer F" <j.hoyal-cuthill@essex.ac.uk>

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UFlorida SexualSelection

Fully funded Ph.D. on the evolution of male weapons

A PhD position is available in the established research group of Christine W. Miller at the University of Florida. The successful applicant will start Fall 2023 to work on an NSF-sponsored project on male-male competition using techniques and perspectives from evolutionary biology, behavior, ecology, and biomechanics. Over the next year we will be hiring an additional Ph.D. student, a postdoc, a research technician, and a research scientist; please see http://www.millerlab.net/opportunities.html for more information.

We use the leaf-footed bugs, Family Coreidae, to understand broad patterns in evolutionary biology. These insects are excellent experimental subjects for student work. They wrestle with their hind legs over territories and have an amazing diversity of hind leg shapes. Other projects in the lab include studies of trade-offs between weapons and testes; the effect of nutrition and social environments on weapon structure, testes size, and male fighting behavior; and the evolution of phenotypic plasticity. Our new phylogeny of the Coreidae allows us to test hypotheses of weapon shape evolution.

The successful applicant for this position will have previous research experience and coursework in the fields of ecology, evolution, and/or animal behavior. Experience with insects is not necessary. This position pays $30,000/year for 4 years and includes a tuition waver and health benefits. To be competitive a M.S. degree in a related field and/or substantial research experience is required. Prospective students are encouraged to email Dr. Christine W. Miller at cwmiller@ufl.edu ASAP, because applications to the graduate program close on January 15th. Before sending an email, please first consult my laboratory's website, www.millerlab.net to learn about our work.

Your email should include 1) a description of the kinds of research questions that motivate you, 2) how your research ideas and previous work link to previous and ongoing work in the lab, 3) a brief overview of any publications, presentations, and your academic experiences, 4) a CV, 5) an unofficial transcript, and 5) why you feel you are ready for a Ph.D. Importantly, please note that diversity and inclusion are more than just words for us. These are central in guiding how we come together as a research team, cultivate excellence, and go forth into the world to share our discoveries and our love of our work. If this all sounds good to you, then please inquire about joining the lab!

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville, is close to world-class fishing, snorkeling, canoeing, tubing and kayaking. On land, there are opportunities for birding, hiking, biking, and fishing. Home of the University of Florida, Gainesville is progressive, environmentally conscious, and culturally diverse. The presence of many students and faculty from abroad among its 100,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant, and interesting place in which to learn and to live.

Christine W. Miller (She/Her) Associate Professor

Email: cwmiller@ufl.edu Phone: 352-273-2919 Twitter: @cwmillerlab Entomology & Nematology Department University of Florida www.millerlab.net

"Miller, Christine W." <cwmiller@ufl.edu>

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UGaum CoralReefConservation

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

The Graduate Research Assistantship is a three-year long program designed to train graduates in scientific research. Selected students will benefit from a tuition waiver of up to 3 years or 36 credits for the pursuit of a master's degree, research training, faculty mentorship, potential travel opportunities, a Guam Green Growth Circular Economy Makerspace and Innovation Hub membership and an $18,000 annual stipend ($1,500 per month).

Selected applicants will participate in Marine ecology, genomics, and oceanography in the field and lab. Depending on chosen specialization, students may learn about DNA extraction and sequencing and/or how to read and analyze data to characterize marine environments. The program may involve hands-on fieldwork to investigate coral reefs or to deploy and retrieve oceanographic instruments while working at the UOG Marine Laboratory or biorepository. Graduate students will also receive support for their individual thesis defenses.

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

The deadline to apply is 12 a.m. CHST on February 10, 2023. Late applications may be considered until the UOG Masters Application Deadline, pending availability of positions. For more information and to apply, visit https://guamepscor.uog.edu/gra/ About NSF Guam EPSCOR

The NSF Guam EPSCoR program at the University of Guam is funded by a five-year, $20 million grant from the National Science Foundation's Established Program for the Stimulation of Competitive Research (EPSCoR). The program aims to broaden the participation of underrepresented students in STEM fields through developing

a research program that helps ensure the sustainability of coral reef ecosystems in the face of environmental change. NSF Guam EPSCoR aims to situate Guam as a premier research and STEM education hub bolstering sustainability, economic development, and informed decision-making by engaging communities in 21st-century science.

Si Yu'os ma'Ã¥se', [Signature Logo] < https://-www.uog.edu/ > Kyle Mandapat Assistant Director for Communications Shareholder, World Wrestling Entertainment

Guam NSF EPSCoR UOG Sea Grant Program UOG Center for Island Sustainability NSF INCLUDES SEAS Islands Alliance Guam Hub Guam Green Growth

Office: +1 (671) 735-0301 Mobile: +1 (671) 683-7716 mandapatk@triton.uog.edu

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The University of Guam is an equal opportunity provider and employer.

Kyle Mandapat <mandapatk@triton.uog.edu>

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UIceland RoserootGeneticsEvolution

3-year PhD position “”

A PhD position for three years (100%) is available at University of Iceland, Reykjavik Iceland.

University of Iceland seeks a highly efficient and motivated candidate for a new and exciting project. The project is funded for three years by RANNIS (The Icelandic Centre for Research) Technology Development Fund. Background: Roseroot (Rhodiola rosea) is in high global demand in the natural medicine industry where it is marketed as an antidepressant and for relieving stress and fatigue. It is also used for hair products and cosmetics. Collection has depleted wild populations and roseroot is now red listed in several countries. In this project, partners with different expertise unite to find an optimal way to sustainably cultivate roseroot in Iceland for marketing as a high-quality product.

Field of work

The project: Roseroots from three distinct habitats (lowland cliffs, highland tundra and mountain tops) will be compared with respect to ecological characteristics, genetic diversity and evolutionary divergence, active compounds, rhizome biomass and seed quality. Assessment of the genetic divergence will be based on whole genomic analysis and mapped on a recently assembled genome of the plant. This will provide a basis for further exploration of the genetics underlying the traits of interest and possible adaptation, and to study the geographic origin and evolutionary status of roseroots in Iceland by comparison with plants from the neighbouring countries. Transplanted individuals will be cultivated in experimental plots and after two growing seasons, scored for growth rate, biomass allocation and active rhizome compounds. We will then select the best population and compare options on product preparation for sale to ood supplement, herbal medicine and cosmetic markets. One product will be a guide to the cultivation of roseroot in Iceland. We hope that the project may make the sustainable cultivation and sale of roseroot products an attractive sideline for traditional farmers in Iceland.

The project includes partners from different arenas. Participants from the University of Iceland come from the Faculty of Life and Environmental Sciences and the Faculty of Pharmaceutical Sciences. The farming partners will be responsible for cultivation and experimental plots. The final partner is a company on the cosmetics market.

The Ph.D. project addresses three aspects: 1) the ecology of the three wild populations 2) their genetic diversity and evolutionary divergence 3) The Ph.D. candidate will be responsible for the assessment of the performance of the transplanted individuals after 2 years cultivation. Two professors in biology will be responsible for the ecological and genetic parts of the project and will supervise the Ph.D. candidate.

Qualification requirements

M.Sc. degree in Biology, Ecology or Molecular Biology

Valuable experience of statistical analyses and bioinformatics, evolutionary or population genetics

Excellent English, both written and spoken

Good planning and organization skills

Ability to work both independently and in a team

The selected candidate must send a formal application for PhD studentship at the University of Iceland within one month after being offered the position.

Application process

The PhD student position starts in April 2023.

Applications should include:

i) a cover letter stating the candidate‘s research interests and experiences in the field of the project,

ii) a CV,

iii) copies of university diplomas (BS and MS), iv) names and full contact information of two professional referees (including their relationship to the applicant).

For further information please contact Thï¿½ra Ellen Thï¿½rhallsdï¿½ttir (theth@hi.is) or Snï¿½bjï¿½rn Pï¿½lsson (snaebj@hi.is).

All applications will be answered, and applicants will be informed about the appointment when a decision has been made. Applications are valid in the system for 6 months after the application deadline.

Appointments to positions at the University of Iceland are made in consideration of the Equal Rights Policy of the University of Iceland - https://english.hi.is/node/-50017 The University of Iceland has a special Language Policy - https://english.hi.is/node/24581/ The University of Iceland is a flourishing community of knowledge and is a very dynamic and interesting workplace. Our values are academic freedom, professionalism and equality. The University strives to provide flexibility and encourages participation in the development of the study programs and research in all fields within the realm of the University. The School of Engineering and Natural Sciences employs ca. 390 people involved with teaching and research. The School offers an

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UMelbourne EvolutionDisease

Project Title: Cracking the code of snails to elucidate parasite disease transmission

Call for PhD students in Snail Taxonomy, Genomics, and Host:Parasite Interactions

Want to help resolve the taxonomy of Australian freshwater snails and assess their ability to transmit parasites to Australian livestock?

Interested in field work and using cutting-edge tools to study phylogenetics, genomics and transcriptomic responses to parasitic infection?

The Parasitology Group at the University of Melbourne is recruiting PhD students to investigate the role of snails as vectors of parasites of socioeconomic importance. In Australia, a disease caused by liver flukes causes major economic losses to livestock production. The role of Australian pond snails as intermediate hosts for this parasite is poorly understood and we aim to explore the phylogeography, biology and genomics of these snails.

PhD students will be given the opportunity to contribute to the taxonomic revision of aquatic snails and their parasites, defining the complete genomes of key representative snail genotypes and/or using transcriptomics to elucidate the molecular interactions between a snail host and a parasite. Expected outcomes from this project are the creation of novel molecular resources for important snail species and to verify their roles as key vectors of flatworm parasites.

The projects are funded through the Australian Research Council, and PhD scholars will be advised by Drs Neil Young, Anson Koehler, Bonnie Webster (Natural History Museum, London) and Professor Emeritus Winston Ponder (Australian Museum, Sydney) and members of the Parasitology Group within the Faculty of Science at The University of Melbourne. The project will be based at the Melbourne Veterinary School at the Parkville campus and in the heart of Melbourne’s biomedical precinct.

To be eligible, applicants must have experience that aligns with one or more of the stated aims (see above). Skills or interest in phylogenetics, malacology, genomics, transcriptomics, bioinformatics, statistical analyses, and/or aquatic invertebrate animal husbandry are all an advantage. Post Graduate Research Scholarships for stipends are available through University of Melbourne, for which the applicant will need to apply separately. Scholarship applications are competitive - applicants should have first-class Honours, Master’s by research (1 year full-time) or equivalent and an excellent academic record. Peer reviewed publications are beneficial.

Project Title: Cracking the code of snails to elucidate parasite disease transmission Department: Faculty of Science, Melbourne Veterinary School Supervisor(s): Dr Neil Young and Dr Anson Koehler To apply follow this link: http://www.findaphd.com?pj=3D152689 anson.koehler@unimelb.edu.au

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UQuebecAT ReindeerEvolution

The project: The Arctic is warming at an extreme rate, and some of the largest temperature increases are occurring in the Norwegian archipelago of Svalbard (+ 1.7âC per 10 years). This makes Svalbard an excellent system for quantifying the effects of climate change on species, trophic interactions and fragile ecosystems. Recently, we made the novel discovery of two phenotypes of reindeer (Rangifer platyrhynchus) with contrasting thermoregulatory physiology : one frequently lowers its subcutaneous body temperature, thus saving energy, while the other maintains a stable, high temperature throughout the winter. According to life-history theory (POLS), physiological (such as metabolism), behavioral, and life-history traits co-evolve to form different life-history strategies along a fast to slow continuum. Each of the two reindeer phenotypes seem to have a distinct behavior, diet, and gut microbiome. It is therefore possible that one of the two phenotypes is better adapted to climate change than the other.

The objectives of this project are to : 1) determine how reindeer life history strategies cluster individuals across a range of phenotypic traits, 2) document how phenotype proportions change with environmental variation, and 3) model the consequences of a warming climate on reindeer population dynamics, including feedbacks to other trophic levels. This project will help predict the response of reindeer populations to rapid climate warming.

Your role: The selected individual will determine the existence of different life history tactics using a joint mixture model, a type of model that groups individuals with similar traits using a latent variable. Well documented traits such as mass, reproduction, and survival will be examined first, followed by heterothermy, diet, parasite load, and microbiome. Clusters of individuals will be placed on the POLS axis, and then the model will be refined by incorporating environmental and density variables. Ultimately, this model will predict future population dynamics by evaluating the influence of several climate change scenarios on these tactics. There will be an opportunity to spend a field season in Svalbard to capture and tag reindeer as part of the Svalbard Reindeer Project, a longitudinal study initiated in 1995 by Steve Albon that has tracked more than 1000 individuals from birth to death. The Svalbard Reindeer Project now includes an international team of researchers in Scotland, Norway, Austria and Canada. An internship in Norway, in the laboratory of Leif Egil Loe, will also be possible. The student will also be able to present his research at national and international conferences.

This 3 years project is fully funded at $21,000 CAD per year with a start date of May or September 2023. However, the successful candidate will be encouraged to apply to internal and external scholarship competitions, including FRQNT and NSERC scholarships (if eligible) to offset salary costs. Preference will be given to applicants eligible for NSERC/FRQNT postgraduate scholarships.

The team: The project will be conducted under the direction of Gabriel Pigeon, Professor of Animal Ecology at the Université du Québec en Abitibi-Témiscamingue (UQAT) in Québec, Canada. Pr. Pigeon's research interests include demography, evolution and conservation. The project will be co-directed by Pr. Sandra Hamel, who holds the Leadership Chair in Biostatistics and Analytical Development at Laval University. The project is in close collaboration with Pr. Leif Egil Loe and his team at the Norwegian University of Life Sciences, in Norway.

Location: The selected candidate will be enrolled at UQAT. Located in the heart of a territory where wide open spaces, lakes and forests stimulate creativity and the emergence of talent, UQAT is naturally different ! UQAT ranks among the top three Canadian universities in terms of research funding per professor. With a research volume of $16.2M per year and state-of-the-art laboratories, UQAT represents an exceptional environment for graduate studies. See: https://www.uqat.ca/-en/research/ The selection criteria: Essential skills and qualifications: - A master's degree in biology, ecology, environmental science, statistics, or a related field. - Numerical expertise, particularly in R, or other modelling languages - Experience in animal ecology, demography, life-history theory, or other relevant subjects - Interpersonal skills, and proactive and collaborative approach to research - Enthusiasm and kindness

Desirable skills and qualifications: - Experience in capture-mark-recapture (CMR) models - Experience in Bayesian statistics - Knowledge of demography and evolutionary ecology - Grade A (3.8/4.3) or higher - Fluency in French - Be somewhat of a geek

How to apply: Please send a letter of intent, a CV, a copy (un-official) of your

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mcmaster.ca/~brian/evoldir.html

USouthBohemia ButterflyMeiosis LASTCALL

Laboratory of Chromosomics (University of South Bohemia, Czechia) is looking for excellent & highly motivated PhD candidates to join a project newly funded by the Czech Science Foundation.

Project: Mechanistic basis and evolution of meiotic idiosyncrasies in moths and butterflies (Lepidoptera)

Abstract: Evolution of meiotic sex still represents one of the most intriguing evolutionary mysteries. Meiosis is highly conserved in eukaryotes. Yet, its modifications are common and can provide important insights into the evolution of sex. Moths and butterflies (Lepidoptera) with their holocentric chromosomes are great candidates for study of modified meiosis. Their chromosomes lack localized centromeres and thus should not be compatible with conventional meiotic segregation as they cannot control separation of sister chromatids. Alterations of meiosis, such as absence of recombination and inverted meiosis, can resolve the issue and were previously reported in Lepidoptera. However, our understanding of lepidopteran meiosis stems mainly from ultrastructural studies limited to only a handful of species. In the present project, we will employ immunofluorescence, Oligopaint fluorescence in situ hybridization, and linked reads and single-cell sequencing to holocentric chromosomes and variation in kinetochore coverage in Lepidoptera along with their meiosis and its modifications including female achiasmatic meiosis, male recombination landscape, and inverted meiosis.

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE. The Laboratory of Chromosomics (http://bit.ly/3HtV7f4) lead by Petr Nguyen (https://orcid.org/0000-0003-1395-4287) combines cytogenetic and genomic approaches to study drivers of karyotype and sex chromosome evolution. It is a part of the Department of Molecular Biology and Genetics which provide a vibrant scientific environment due to its close collaboration with research institutes of Biology Center of Czech Academy of Sciences.

The Faculty of Science represents an equal opportunity employer as certified by the European Commission's HR Excellence in Research Award.

This position will provide - study in the new Integrative biology PhD program (http://bit.ly/3FS414Y) - the PhD position funded by salary from the project for three years combined with a scholarship for four years - support for career development and mentoring - international team and collaborators with opportunities to travel (conferences and research internship abroad are mandatory part of the PhD curriculum) - flexible working time, 5 weeks of vacation, full health insurance, student benefits - a meal allowance, a discounted mobile tariff with a contract operator, and university kindergarten - administrative support with relocation & settling in the Czech Republic - work-life balance in a middle-sized university city offering low cost of living and high quality of life

Requirements - Master degree in relevant field of Life Sciences or Bioinformatics - strong interest in the research question - flexibility, and the ability to work both independently and in a team are essential - fluency in English - skills and experience we are looking for include: - experience in using molecular cytogenetic and/or standard molecular biology techniques - experience with next generation sequencing and data analysis is highly appreciated - knowledge of widefield and confocal fluorescent microscopy and image data analysis is a plus but not required.

How to apply

To apply please submit your application via e-mail to jobs@prf.jcu.cz by January 6, 2023. The application should be sent as a single pdf-document and include: - CV - a letter detailing your motivation to apply with a concise summary of your previous research activities - contact information of one referee

Informal inquiries are welcome. For further information, please contact the principal investigator Petr Nguyen (petr.nguyen@prf.jcu.cz).

Please note that the selected candidate will also need to submit an application for admission as a graduate student. Formal applications for entry to the graduate programme are due January 20, 2023.

For more information, please visit the following websites: Laboratory of Chromosomics: http://bit.ly/3HtV7f4 Petr Nguyen, principal investigator: https://orcid.org/-0000-0003-1395-4287 http://bit.ly/3uP5ouK The Integrative Biology graduate programme: http://bit.ly/-3FS414Y ÃeskÃ© BudÃ: https://www.budejce.cz/en/ Petr Nguyen <nguyep00@prf.jcu.cz>

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USouthBohemia MeioticModificationsLepidoptera

Laboratory of Chromosomics, Faculty of Science, University of South Bohemia in Äeské BudÃis looking for excellent & highly motivated candidates for a PhD position who will investigate Mechanistic basis and evolution of meiotic idiosyncrasies in moths and butterflies (Lepidoptera) as a part of a project newly funded by the Czech Science Foundation.

The project will investigate holocentric chromosomes and variation in kinetochore coverage in Lepidoptera along with their meiosis and its modifications including female achiasmatic meiosis, male recombination landscape, and inverted meiosis. Anticipated methodologies include immunostaining, ChIP, Oligopaint FISH, and whole genome and single cell RNA sequencing.

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE. The Laboratory of Chromosomics (http://bit.ly/3HtV7f4) combines cytogenetic and genomic approaches to study drivers of karyotype and sex chromosome evolution. It is a part of the Department of Molecular Biology and Genetics which provide a vibrant scientific environment due to its close collaboration with research institutes of Biology Center of Czech Academy of Sciences. The Faculty of Science represents an equal opportunity employer as certified by the European Commission's HR Excellence in Research Award.

This position will provide - study in the new Integrative biology PhD program (http://bit.ly/3FS414Y) - the PhD position funded by salary from the project for three years combined with a scholarship for four years - support for career development and mentoring - international team and collaborators with opportunities to travel (conferences and research internship abroad are mandatory part of the PhD curriculum) - flexible working time, 5 weeks of vacation, full health insurance, student benefits - a meal allowance, a discounted mobile tariff with a contract operator, and university kindergarten - administrative support with relocation & settling in the Czech Republic - work-life balance in a middle-sized university city offering low cost of living and high quality of life

Requirements - Master degree in relevant field of Life Sciences or Bioinformatics - strong interest in the research question - flexibility, and the ability to work both independently and in a team are essential - fluency in English - skills and experience we are looking for include: - experience in using molecular cytogenetic and/or standard molecular biology techniques - experience with next generation sequencing and data analysis is highly appreciated - knowledge of widefield and confocal fluorescent microscopy and image data analysis is a plus but not required.

How to apply

To apply please submit your application via e-mail to jobs@prf.jcu.cz by January 6, 2023. The application should be sent as a single pdf-document and include: -CV -a letter detailing your motivation to apply with a concise summary of your previous research activities -contact information of one referee

Informal inquiries are welcome. For further information, please contact the principal investigator Petr Nguyen (petr.nguyen@prf.jcu.cz).

Please note that the selected candidate will also need to submit an application for admission as a graduate student. Formal applications for entry to the graduate programme are due January 20, 2023.

For more information, please visit the following websites: Laboratory of Chromosomics: http://bit.ly/3HtV7f4 Petr Nguyen, principal investigator: https://orcid.org/-0000-0003-1395-4287 http://bit.ly/3uP5ouK The Integrative Biology graduate programme: http://bit.ly/-3FS414Y Äeské BudÃ: https://www.budejce.cz/en/ Petr Nguyen <nguyep00@prf.jcu.cz>

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UTasmania EvolutionMultipleSclerosisRisk

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

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

Multiple sclerosis (MS) prevalence shows a heterogeneous geographical pattern, with higher prevalence in populations of European ancestry, increasing with distance from the equator within those populations. This pattern has likely been shaped in part by natural selection. Identifying genes that have undergone selection at MS risk loci will improve our understanding of the causative mechanisms behind the disease. This project will use population genomics to identify functional variation under natural selection at loci associated with MS risk.

You will use cutting-edge bioinformatic methods to carry out genome-wide scans for natural selection in population genomic data, and localise MS-related selection by targeting loci known to be associated with MS risk. You will use haplotype analysis to test whether specific haplotypes at loci under selection are associated with MS, providing a more detailed picture of the genetic architecture that contributes to risk than we can generate considering only individual variants.

This is primarily a bioinformatic/analytic project, but could also include a laboratory component to validate findings by targeted sequencing in a cohort of MS patients and controls.

The selected candidate will need to apply to the upcoming scholarship round at UTAS (closing 27 March 2023). Details can be found at the UTAS website below:

https://www.utas.edu.au/research/degrees/available-projects/projects/medical-research/the-evolution-of-multiple-sclerosis-risk2 Selection criteria: 1. Strong academic record, including a Bachelor degree with Honours or Masters from a recognised institution. 2. Strong quantitative skills, ideally including competence with R as well as familiarity with the Linux command line and scripting. 3. English language proficiency. 4. Experience in either bioinformatics or population biology.

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

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

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WSL Switzerland ConservationBiology

The Conservation Biology Research Group at the Swiss Federal Research Institute is looking for a:

PhD student in Urban Ecology 100% (m/f/d) for early 2023 (not later than May 1, 2023)

We aim to investigate "people-plant-insects" interaction networks and their main socio-ecological drivers in different cities in Switzerland. The study is part of a larger interdisciplinary project PAPPUS (https://-www.wsl.ch/pappus) that aims to understand how decision makers influence plant assemblages in different urban green spaces and how their decisions affect the ecological and human benefits that can be realized from urban green spaces in a changing climate.

If you are interested, apply using https://-apply.refline.ch/273855/1420/pub/2/index.html Marco Moretti, PhD/Senior Scientist Swiss Federal Research Institute WSL Birmensdorf, CH (office MG D47) Mobile: +41-79-237 0713 https://www.wsl.ch/-en/mitarbeitende/moretti.html Marco Moretti <marco.moretti@wsl.ch>

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Jobs

AMNH NewYork Curator

Position Title Curator, Professor, and Chief Conservation Scientist Department Sr Vp & Provost - 034 Classification Title Position Summary The American Museum of Natural History (AMNH) seeks a Curator in the area of Conservation Science. This is a tenured position with rank negotiable depending on the candidate's professional experience and accomplishments. The successful candidate for this position will be appointed as a Curator in one of the Divisions (Anthropology, Invertebrate Zoology, Paleontology, Physical Sciences, or Vertebrate Zoology) and as a Professor in the Richard Gilder Graduate School at the AMNH as well as hold the title Chief Conservation Scientist in the Center for Biodiversity and Conservation < https://www.amnh.org/research/-center-for-biodiversity-conservation > (CBC).

We seek an experienced conservation scientist with demonstrated high-impact research, productivity, and grantsmanship, and significant promise of future cutting-edge, interdisciplinary research, scholarship, and conservation practice. Research focus could be in any area related to biodiversity conservation, including patterns of global change, conservation strategies, climate change impacts and adaptation, biocultural conservation, or social-ecological systems. Those who utilize natural history collections for future-oriented research, and those leading work at the intersection of conservation, climate change, and human wellbeing are especially encouraged to apply.

The Curator, Professor, and Chief Conservation Scientist's research and activities are expected to complement and strategically expand the Museum's impact in conservation, as well as synergize with other areas of AMNH science and establish or strengthen local, regional, and global collaborations. The successful candidate for this position should be an active and dynamic scientist who has an interest in collaboration with Museum staff, including scientists and specialists at the CBC. Resources available at the AMNH include world-class collections and research library, our Institute for Comparative Genomics, an ancient biomolecules laboratory, microscopy and imaging facilities, the Southwestern Research Station, the Richard Gilder Graduate School, an active internal grant program to support field research and collaborations with area universities, and an active public outreach program. The successful candidate will also serve as an ambassador of the Museum's conservation mission, representing this body of work with science, technology, Indigenous and local communities, the gen-

eral public, the media, and other partners.

The expected salary range for the Curator, Professor, and Chief Conservation Scientist is $140,000 - 185,000.

Pay will be determined based on several factors. The hiring range for the position at commencement is based on the type of work and the scope of responsibilities. The salary and placement offered is based on a number of individualized factors, including, but not limited to, skills, knowledge, training, education, credentials, areas of specialization and depth and scope of experience.

Required Qualifications Candidates must hold a doctoral degree in the natural or social sciences at the time of application submission.

Preferred Qualifications Physical Demands Category Full-Time

Total Number of Scheduled Hours Per Pay Period 70 Union Status Non-Union FLSA Exempt Expected salary minimum $140,000/annual Expected salary maximum $185,000/annual EEO Statement The American Museum of Natural History is an Equal Opportunity/Affirmative Action Employer. The Museum does not discriminate with respect to employment, or admission or access to Museum facilities, programs or activities on the basis of race, creed, color, religion, age, disability, marital status, partnership status, gender, sex, sexual orientation, gender identity, gender expression, genetic information, pregnancy, alienage or citizenship status, current or former participation in the uniformed services, status as a veteran, or national or ethnic origin, or on account of any other basis prohibited by applicable City, State, or Federal law. Additional protections are afforded in employment based on arrest or conviction record, status as a victim of domestic violence, stalking and sex offenses, unemployment status, and credit history, in each case to the extent provided by law. If special accommodations are needed in applying for a position, please call the Office of Human Resources.

Quick Link https://careers.amnh.org/postings/3476 Posting Detail Information

Posting Number FA008P Open Date 01/13/2023 Close Date Open Until Filled Yes Special Instructions to Applicants Application materials should include:

* Cover letter (maximum 1 page) * Curriculum vitae

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ArizonaStateU BiodiversitySoftwareEngineer

The Arizona State University (ASU) School of Life Sciences and Biodiversity Knowledge Integration Center (BioKIC) are seeking a Software Engineer to develop new services for the domain of biodiversity data management and publication. BioKIC is the leading developer and service provider for the Symbiota software platform (https://symbiota.org/), which currently serves more than 1,700 natural history collections and 90 million specimen records through 50 specialized portals and user communities, with functions ranging from basic data management to global data aggregation. BioKIC directly interacts with a range of Symbiota clients including academic, governmental and private institutions. The Symbiota team at ASU includes a dynamic group of project managers, informaticians, and biocollections and community specialists.

Due to an influx of development requests and funds, we are able to recruit an additional team member who will focus on designing and implementing new functional services for Symbiota, as requested by the greater user community or required by particular portal clients. This is an entry-level position and well-suited for candidates with a strong general or scientific software engineering training background and a desire to learn and contribute to an open source, rapidly growing, biodiversity data-focused software project. Candidates with diverse personal and professional backgrounds and experiences are strongly encouraged to apply.

The Software Engineer can be located in Tempe, Arizona, or work remotely.

Link to apply: https://sjobs.brassring.com/TGnewUI/Search/home/HomeWithPreLoad?partnerid=25620&siteid=5494&PageType=JobDetails&jobid=4691823 Closes: January 17, 2023

Inquiries are welcome; please contact nico.franz@asu.edu

Nico M. Franz, Ph.D. (he/him) Virginia M. Ullman Professor of Ecology Director of Biocollections

School of Life Sciences, PO Box 874108 Arizona State University, Tempe, AZ 85287-4108

E-mail: nico.franz@asu.edu

Nico Franz <nico.franz@asu.edu>

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AustralianNatlU LabManager AnimBehav

Title: AustralianNationalUniversity.LabManager.AnimBehav

Text:

The Aplin lab at the Australian National university is looking for a full-time lab manager for a 3-year position with competitive salary. This is a key role in a friendly, inclusive research group that is focused on understanding the social dynamics, cognition and culture of wild birds. We do this with a combination of wild and captive work, with a focus on large-scale experiments using automated tracking and custom-built apparatus. The lab group is located at the Australian National University and the University of Zurich, however this position will be based at the Australian National University and the person must have working rights in Australia.

The Person will act as a general lab manager for a lab group of 5-7 people. In this role they will: 1) assist lab members in designing, building or ordering new experimental equipment and in managing this equipment; 2) undertake field-work in the local area (Canberra, Sydney and Wollongong) on wild parrots; 3) work with lab members and casual assistants to undertake various laboratory work including video-coding or processing of samples; and 4) help manage our existing datasets, including from our citizen-science platform. We are looking for someone with experience in field work and data management, who enjoys active fieldwork, problem-solving, engaging with the public, and undertaking a diverse range of activities, including hobby electronics/DIY. Opportunities to engage with and give input into research questions will be provided.

The position description and application portal can be found here:

https://jobs.anu.edu.au/cw/en/job/548654/research-officer, and applications close January 13. Feel free to contact lucy.aplin@anu.edu.au for more information.

Dr Lucy Aplin

Cognitive & Cultural Ecology Lab

Research School of Biology, Australian National University Department of Evolutionary Biology & Environmental Studies, University of Zurich Affiliated Scientist, Max Planck Institute of Animal Behaviour

Lucy Aplin <lucy.aplin@anu.edu.au>

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ClemsonU LabTech GenomicsBioinformatics

We are looking to hire a Lab Research Specialist with a focus in molecular biology and lab management at the Clemson University Genomics and Bioinformatics facility.

For more information: viper@clemson.edu

https://bit.ly/3GJaHmm JOB SUMMARY: Laboratory Research Specialist will assist in day-to-day lab management duties, supervise and train student and postdoctoral researchers, conduct experiments, perform basic bioinformatic analyses, conduct other genomic related research activities and perform other duties as assigned.

JOB DUTIES: 55% - Essential - Research Activities: Performs technical molecular biology experiments, including but not limited to: DNA/RNA isolation, cDNA prep, RNA/DNA library preparation, Illumina short-read NGS, qPCR, PCR, etc. Performs basic bioinformatics tasks such as de-multiplexing, trimming NGS reads, etc. Oversees and runs the Agilent Bioanylzer, the Illumina NGS sequencing platforms and other equipment.

30% - Essential - Lab Management: Manages lab ordering, invoicing, budgeting, record keeping and generation of quotes. Assists in maintaining regulatory compliance. Manages lab inventory and records. Maintains/Updates social media/website and helps organize seminars/workshops. Oversees day-to-day maintenance of lab space, facilities, and equipment.

15% - Essential - Personnel Oversight: Assists in training personnel, students, staff, and faculty levels. Assists in providing oversight for student researchers.

MINIMUM REQUIREMENTS: Education - Bachelor's Degree - Biology or related field Work Experience 2+ years

Christopher L. Parkinson Department of Biological Sciences, and Department of Forestry and Environmental Conservation Director, Clemson University Genomics and Bioinformatics Facility 190 Collings St., Life Sciences Facility, Clemson University, Clemson, SC 29634

Christopher L Parkinson <viper@clemson.edu>

Harvard MalariaGenomicSurveillance

Genomics Technology Transfer Specialist

Harvard T.H. Chan School of Public Health

60453BR

Job Summary

The Department of Immunology and Infectious Diseases (IID) focuses on the biological, immunological, epidemiological and ecological aspects of viral, bacterial and protozoan diseases of animals and humans, including the vectors that transmit infectious agents. Research in the department's 14 laboratories is primarily focused on diseases of developing countries.

The Neafsey Lab (https://sites.sph.harvard.edu/neafsey-lab/) uses genomic and transcriptomic sequence data to study vector-borne infectious diseases (principally malaria). The lab employs a perspective informed by population genetics and molecular evolution to investigate interactions between microbes, vectors, and hosts.

Position Description

The Neafsey Laboratory at the Harvard T.H. Chan School of Public Health (HSPH) is seeking to hire a Genomics Technology Transfer Specialist to support molecular surveillance of malaria in disease-endemic countries. The successful applicant will join an interdisciplinary team of scientists, project staff, and students. The role will be primarily focused on building, maintaining, and extending capacity for short-read DNA sequencing of Plasmodium malaria parasites and anopheline mosquitoes via multiplexed PCR amplicon panels in South America and other locations.

We seek a highly motivated and independent individual to work closely with other team members from HSPH, the Broad Institute, and academic and governmental institutions in South America. The ability to communicate effectively, work well in a team setting, and a desire to learn, apply, extend, and pilot new wet lab and computational methods are required. The position offers an opportunity to participate in a dynamic research environment directly supporting public health. This position will allow for professional advancement, skill development, and participation in research. However, the primary focus of this role will be capacity support for public health rather than data generation and academic publication.

Duties and responsibilities include, but are not limited to, the following:

- Improving and customizing existing multiplexed PCR amplicon sequencing protocols for implementation in different settings - Contributing to publications and presentations describing malaria molecular surveillance protocols and datasets - Working with partner labs to perform QA/QC on Illumina sequencing runs and troubleshoot as needed - Assisting partner labs with data interpretation and execution of cloud-based analysis pipelines - Coordinating sample transfers and parallel data collection between labs in Boston and South America - Organizing and providing training in Boston for visiting collaborators, and training collaborators at partner sites in South America - Working with collaborators to develop and modify training curricula for data generation and interpretation - Other duties and projects as assigned

PLEASE NOTE: This position has a term appointment of December 31, 2023, with the possibility of extension.

PLEASE NOTE: The incumbent must be willing to travel internationally, including to South America (~2 times/year).

PLEASE NOTE: This position is primarily on-campus and this position will be based in Boston, MA. Additional details will be discussed during the interview process.

PLEASE NOTE: The finalist will be required to successfully pass an occupational health screening.

Basic Qualifications

- Master's degree in epidemiology, population genetics, public health, or related field required - 5+ years of relevant experience with common molecular genetic techniques, including nucleic acid extraction and PCR

Additional Qualifications and Skills

The following job-specific skills and competencies are preferred:

- Doctoral degree preferred - Practical experience with basic bioinformatic tools and Linux command line envi-

ronments - Excellent oral and written communication skills - Fluency in Spanish strongly desired - Experience performing both self-directed and guided work, and ability to work effectively as part of a team are crucial - Excellent time-management and prioritization skills in coordinating multiple concurrent tasks or projects - Must be flexible and able to respond to shifting priorities in a dynamic setting - Knowledge of genome sequencing, relevant bioinformatics tools (aligners, variant callers, etc) and public sequencing databases

The following cultural competencies are also preferred:

- Awareness of and aptitude to appropriately and effectively understand, respect, and adapt to cultural and identity-based difference within group environments - Knowledge of and commitment to concepts and issues tied to social

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InstTecnologico Brasil Two Bioinformatics PopGenet

We are hiring a full-time researcher with experience in Population Genomics at Instituto Tecnologico Vale: https://vale.eightfold.ai/careers?domain=vale.com&pid=14728143 The call is in Portuguese, but candidates from all over are welcome to apply! Apply by January 6th!

Alexandre Aleixo Instituto Tecnolï¿½gico Vale | Vale Institute of Technology

Desenvolvimento Sustentï¿½vel | Sustainable Development

Rua Boaventura da Silva, 955 - Nazarï¿½ Cep: 66055-090 - Belï¿½m, PA - Brasil www.itv.org —

We are hiring a full-time researcher with experience in Bioinformatics, Genomics, and biodiversity at Instituto Tecnolï¿½gico Vale: https://vale.eightfold.ai/careers?domain=vale.com&pid=14728790 The call is in Portuguese, but candidates from all over are welcome to apply! Apply by January 6th!

Alexandre Aleixo Instituto Tecnolï¿½gico Vale | Vale Institute of Technology

Desenvolvimento Sustentï¿½vel | Sustainable Development

Rua Boaventura da Silva, 955 - Nazarï¿½ Cep: 66055-090 - Belï¿½m, PA - Brasil www.itv.org Alexandre Aleixo <alexandre.aleixo@itv.org>

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Mallorca Spain Tech Bioinformatics

Bioinformatician position (PhD or equivalent) for 2 years (with possibility of contract extension) at the Center for Biology at the University of the Balearic Islands (Mallorca, Spain)

Strong scientific results (peer-reviewed publications in high-quality journals) and a contribution to the development and maintenance of bioinformatics tools. 2) Experience practice in bioinformatics programming (eg, python, C, or java) and git repositories. 3) Experience in bioinformatics tools developed in singularity, docker, galaxy and elixir. 4) Experience in assembly and annotation of genomes, particularly using long reads (ONT, PACBIO), and HiC. 5) Experience with sequence data analysis state-of-the-art, such as whole genome sequencing, RNA- Seq and population genomics. 6) Great interest in the study of biological patterns using genomic approaches. 7) Good communication and collaborative skills. Spanish and Catalan languages are a plus.

For further information please contact to Maria Capa maria.capa@uib.es

Link to apply: https://investigacio.uib.es/Contractacio/Convocatories-vigents/ SEE APPLICATION 2022-23_4_13

Application close on 7 February 2023

Joan Pons PhD IMEDEA (CSIC-UIB) Miquel Marques, 21 Esporles, 07190 Illes Balears, SPAIN

email jpons@imedea.uib-csic.es web http://www.imedea.uib.es/ ˜ jpons/JPWPhome.htm NIF CSIC Q2818002D (Tax Number) phone +34 971 611332 fax +34 971 611761

Joan Pons IMEDEA <jpons@imedea.uib-csic.es>

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MiamiU PlantEvolution

Tenure-track position in plant biology at Miami University

Miami University is hiring a tenure-track Assistant/Associate Professor in Biological Sciences who will serve as Director of The Conservatory at the Hamilton Campus. Appointment begins in August, 2023.

The position requires a Ph.D. in Biology or a closely related field by date of appointment. Appointment as Associate Professor requires an established record of teaching and research/scholarship.

The successful applicant will teach courses in plant diversity, evolution, and/or area of expertise; supervise staff and develop programming for The Conservatory; maintain an active research program and seek external funding; advise students; and provide service to the institution and profession which will include oversight of The Conservatory. The Hamilton Campus is located 16 miles from the university's main campus in Oxford, Ohio.

Consideration may be given to candidates with * postdoctoral experience and/or prior teaching experience at the college level; * interests in teaching plant diversity and evolutionary biology for biology majors, while also teaching other courses within their area of expertise; * research interests that complement those of current faculty and that show potential for research collaborations with other Miami biologists; * interests in developing The Conservatory at the Hamilton Campus as a facility for teaching, research and public outreach; * experience working with a living plant collection and/or public outreach in biological diversity. Screening of applicants will begin January 23, 2023 and continue until the position is filled. Further information and application procedures can be found at https://jobs.miamioh.edu/cw/en-us/job/500994/assistantassociate-professor . Miami University is committed to creating an inclusive and effective teaching, learning, research, and working environment for all.

For more information on Miami University's diversity initiatives, please visit the Office of Institutional Diversity & Inclusion webpage. For more information on Miami University's mission and core values, please visit the Mission and Core Values webpage.

Miami University, an Equal Opportunity/Affirmative Action employer, encourages applications from minorities, women, protected veterans and individuals with disabilities. Miami University prohibits harassment, discrimination and retaliation on the basis of age (40 years or older), color, disability, gender identity or expression, genetic information, military status, national origin (ancestry), pregnancy, race, religion, sex/gender, status as a parent or foster parent, sexual orientation, or protected veteran status in its application and admission processes, educational programs and activities, facilities, programs or employment practices. Requests for reasonable accommodations for disabilities related to employment should be directed to ADAFacultyStaff@MiamiOH.edu or 513-529-3560.

As part of the University's commitment to maintaining a healthy and safe living, learning, and working environment, we encourage you to read Miami University's Annual Security & Fire Safety Report at: http://www.MiamiOH.edu/campus-safety/annual-report/index.html, which contains information about campus safety, crime statistics, and our drug and alcohol abuse and prevention program designed to prevent the unlawful possession, use, and distribution of drugs and alcohol on campus and at university events and activities. This report also contains information on programs and policies designed to prevent and address sexual violence, domestic violence, dating violence, and stalking. Each year, email notification of this website is made to all faculty, staff, and enrolled students. Written notification is also provided to prospective students and employees. Hard copies of the Annual Security & Fire Safety Report may be obtained from the Miami University Police Department at (513) 529-2223. A criminal background check is required. All campuses are smoke- and tobacco-free.

Miami University is committed to providing up-to-date information from the Department of Labor to our applicants for employment. Here, you will find links to the current information regarding the Family and Medical Leave Act (FMLA), Equal Employment Opportunity (EEO), and the Employee Polygraph Protection Act (EPPA).

David J. Berg University Distinguished Professor

Department of Biology Ph.D. Program in Ecology, Evolution, & Environmental Biology Miami University, Ohio

513-785-3246

"Berg, David" <bergdj@miamioh.edu>

MichiganStateU ResTech ElectricFishGenomics

The Electric Fish Laboratory at Michigan State University (efish.integrativebiology.msu.edu) is looking to fill an immediate opening for the position of Research Technician. This position is an opportunity to join agrowing team of evolutionary biologists focused on understanding the genomic basis of trait evolution in weakly electric fish. The successful applicant will be chiefly responsible for conducting experiments in our molecular biology laboratory and training undergraduateresearch assistants to conduct independent experiments in collaboration with the principal investigator.

Minimum requirements: A bachelor's degree in biology or related field. 6+ months of experience with basic molecular biology techniques (e.g. DNA extraction, RNA extraction, PCR, cloning). 6+ months experience handling animals, including dissection, administration of drugs through injection. Must be dependable, with excellent organization, communication, and basic computer skills.

Desired qualifications: In addition to minimum requirements, desired qualifications include (1) practical experience or working knowledge of microscopy, immunohistochemistry, single-cell RNAseq, or cell culture; (2) specific experience with fish husbandry and handling; (3) general familiarity with laboratory safety policy and procedures; (4) experience training and supervising undergraduate research assistants; and (5) experience with data analysis using R or equivalent software.

Job Summary: Primary responsibilities include conducting molecular biology experiments as directed by principal investigator (50%), training undergraduate assistants and other lab members in conducting basic molecular biology tasks (40%), and laboratory administration/ maintenancetasks (10%).

This is a full-time position. The initial appointment will have a probationary period, after which yearly reappointments will be made for successful and productive candidates, contingent upon available funding. To apply, submit a cover letter, current CV/resume, andthe contact information (phone number and email address) of three references. Individuals should apply through https://careers.msu.edu/en-us/-job/513643/research-technologist-i .Please feel free to contact jgallant [at]msu.edufor informal inquires or more information.

Dr. Jason R. Gallant Associate Professor Room 138 Giltner Hall Department of Integrative Biology Michigan State University East Lansing, MI 48824 jgallant@msu.edu office:517-884-7756 http://-efish.integrativebiology.msu.edu jgallant@msu.edu

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NorthCarolinaStateU InsectBiodiversity

Assistant Professor of Entomology & Plant Pathology, Insect Biodiversity

The Department of Entomology & Plant Pathology at North Carolina State University invites applications for a 9-month tenure-track position at the Assistant Professor level. This faculty position is located on the main campus in Raleigh, North Carolina, and has a 70% research and 30% teaching appointment. The selected individual is expected to develop an innovative research and teaching program related to arthropod biodiversity broadly defined. The incumbent's research should incorporate modern approaches in taxonomic and phylogenetic systematics. Graduate mentorship, scholarly achievement, and extramural funding in integrative insect biodiversity science is expected.

The incumbent will serve as Director of the NC State University Insect Museum. This research collection, founded in 1952, contains over 2 million specimens and is a premier research collection in the Southeastern US. The incumbent is expected to contribute to collection development, preservation, and advancement using modern collection management approaches and extramural funding. In addition, the incumbent will foster and support use of the collection by outside scientists and educational and outreach opportunities. The incumbent is expected to oversee a staff member who will contribute to these goals.

Significant opportunities exist for collaborations with faculty and members in multiple departments on campus and among scientists and staff of the North Carolina Museum of Natural Sciences in Raleigh, NC. Potential collaborations also exist with Research Triangle Park-based environmental, regulatory, and evolutionary biology centers, agencies, and consortia.

The incumbent is expected to generate extramural funding to support their program following startup resources and will participate in the graduate and undergraduate academic programs of the department. The successful candidate will be expected to teach a core graduate-level course in Insect Biodiversity and Evolution in the Entomology Graduate Program.

The incumbent is expected to generate extramural funding to support their program following startup resources and will participate in the graduate and undergraduate academic programs of the department. The successful candidate will be expected to teach a core graduate-level course in Insect Biodiversity and Evolution in the Entomology Graduate Program.

Minimum qualifications include a PhD in Entomology or field of study directly related to the position description - interest and experience in arthropod systematics are preferred. Preference will be given to candidates who have hypothesis driven collections-based or systematic research interests.Demonstrated experience in undergraduate or graduate teaching, skills in verbal and written communication, interpersonal relations, and procurement of extramural funding are highly desirable.

The position includes a competitive compensation and start-up package. Review of applications will proceed February 1, 2022 and continue until the position is filled. For further information contact the search committee chair, Steve Frank (sdfrank@ncsu.edu) or Department Head of Entomology & Plant Pathology, Dr. Carolyn Young (cyoung6@ncsu.edu).

For a complete job description and details for submission of applications, please referencehttps://jobs.ncsu.edu/-postings/175967. NCState University is an equal opportunity/affirmative action employer and welcomes all persons without regard to sexual orientation. Individuals with disabilities desiring accommodations in the application process should contact Marci Walker,marci_walker@ncsu.edu, 919-515-2730 (office phone).

NC State University is especially interested in qualified candidates who can contribute, through their experience, research, teaching and/or service, to the diversity and excellence of the academic community. The University is responsive to the needs of dual career couples.

Posted/ 12/12/2022

Brian M. Wiegmann William Neal Reynolds Distinguished Professor Department of Entomology & Plant Pathology North Carolina State University Raleigh NC 27695-7613 ph: (919) 515-1653 fax: (919) 515-7746 brian_wiegmann@ncsu.edu

Associate Director TriCEM The Triangle Center for Evolutionary Medicine tricem.org

Brian Wiegmann <bwiegman@ncsu.edu>

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NorthCarolinaStateU TeachingGenomics

Teaching Assistant Professor Genetics and Genomics

Organization: The Genetics and Genomics Academy (GGA) is a university-wide effort aimed at involving all 10 colleges. The GGA encompasses multiple departments, centers and institutes and addresses all three pillars of the university's land-grant mission: education, research and service to the state of North Carolina. One goal of the GGA is to provide all NC State students, staff and faculty with the opportunity to gain a working knowledge of genetics and genomics. A second goal is to enhance the understanding of genetics and genomics among North Carolina residents.

Essential Job Duties

The Assistant Teaching Professor will have primary responsibility for establishing a set of mostly 1-credit genetics and genomics courses aimed predominantly at undergraduate students who are not in the life sciences. Courses will have themes that will appeal to the curiosity of specific sets of students. Courses could have titles such as "My pet's DNA", "What can my DNA tell me and others?", "The genetics of cancer in my family", "Can DNA prevent species extinctions?", "What are the genes in my food?", "Living in a genetically engineered world". Other courses will be tailored to students from specific disciplines; for example, "Genetics and genomics for engineers", "Genetics and genomics for journalists". To the extent possible, students will work on individual or small group projects involving DNA that they collect.

This is a brand-new initiative for NC State and success will require creativity, innovative pedagogical skills, and technical knowledge. While the Assistant Teaching Professor will develop and teach some of the 1-credit courses, it is expected that the person in this position will work with GGA faculty, postdocs, and graduate students to enable them to teach 1-credit courses on topics about which they are passionate. In each of these efforts, the Assistant Teaching Professor will be

assisted by the GGA Program Specialist and the GGA Communication/Outreach Specialist.

Specific responsibilities include, but are not limited to the following:

Develop syllabi for 1-credit courses in coordination with other GGA faculty and staff Work with University administration to set up times and locations for courses Advertise courses with assistance from GGA Communication/Outreach Specialist Teach a subset of 1-credit courses Roll out course offerings over time that involve GGA faculty, postdocs and students

To Apply: Use this URL https://jobs.ncsu.edu/postings/175853 Questions: email to Fred_Gould@ncsu.edu

fgould@ncsu.edu

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NorthernArizonaU ResAssist VertebrateGenetics

The Walker Lab at Northern Arizona University (https://joinpmi.com/walker-lab/) is seeking a congenial and highly skilled person to join the Species from Feces Team. This full-time Research Assistant position will be responsible for DNA extraction from wildlife fecal and environmental samples, next-generation library preparations, PCR/qPCR sample screening, targeted enrichment, and experiments in a BSL2 environment. Minimum qualifications are a B.S. and 2 years of genetics experience, and preferred qualification is a Master's degree in a genetics discipline. Pre-exposure rabies vaccinations are a plus.

Species from Feces (https://nau.edu/sff) is a program that detects species and performs population genetic analyses from an assortment of sample types for conservation and management goals. Increasingly, we are using creative means to collect DNA of terrestrial vertebrates such as swabbing and air sampling. The Walker Lab conducts leading research in the fields of genetics, biodiversity, and environmental sciences. Our team comprises geneticists, bioinformaticists, and ecologists.

At Northern Arizona University, we foster a culture of inclusion and diversity. The university invites applications from all qualified individuals, including from groups that are traditionally underrepresented in employment. Northern Arizona University sits at the base of the San Francisco Peaks, on homelands sacred to Native Americans throughout the region. We recognize that today this place is home to many First Nations, and acknowledging them reminds us of our collective responsibility to the land where we learn and work.

Please apply on NAU Current Staff Openings (https://in.nau.edu/human-resources/current-job-openings/) Or email Dr. Faith Walker (faith[dot]walker[at]nau[dot]edu), with "Research Assistant" in the subject line.

Faith Marguerite Walker <Faith.Walker@nau.edu>

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OhioU EvolutionaryAdaptation

The Department of Biological Sciences at Ohio University (https://www.ohio.edu/cas/biosci/) invites applications for a nine-month, tenure-track position at the rank of Assistant Professor with an expected start date of August 2023. We are interested in candidates who use integrative approaches (experimental, comparative, or computational) to study organismal and ecosystem responses to habitat loss, urbanization, pollution, or climate change. Preference will be given to candidates whose research evaluates how organisms adapt to changing environments and applies integrative approaches to assess how eco-physiological processes, eco-evolutionary dynamics, population dynamics, or interspecific interactions (e.g., host-parasite, host-microbe, predator-prey, disease dynamics) are affected by environmental change.

Candidates will be expected to establish an innovative, extramurally funded research program. We seek applicants whose research interests complement and extend our departmental strengths in evolution and ecology, organismal biology, physiology, and molecular biology and who can collaborate with faculty in a broad-based Biological Sciences Department. Faculty members in the department teach and mentor undergraduate, MSc, and PhD students. Depending on the candidate's research area, teaching for this position will include Conservation Biology and two additional courses that fill departmental teaching needs.

Candidates should provide evidence of research excellence demonstrated by a record of extramural support and publications in relevant journals and a research statement that outlines an innovative, forward-looking

research program. Post-doctoral and teaching experience is desirable.

Diversity, Equity, and Inclusion Statement Ohio University is committed to creating a respectful and inclusive educational and workplace environment. Ohio University is an equal access/equal opportunity and affirmative action employer with a strong commitment to building and maintaining a diverse workforce. Women, persons of color, persons with disabilities, and veterans are encouraged to apply. We seek candidates who demonstrate an understanding of barriers to equitable outcomes in STEM fields and a commitment to promote diversity and inclusion through research, teaching, and/or public engagement.

Ohio University and the Department of Biological Sciences Ohio University is a Carnegie Foundation R1 residential campus institution with an enrollment of over 25,000 students. The main campus is situated in the city of Athens in the foothills of Appalachia. Founded in 1804, Ohio University consists of nine colleges and multiple interdisciplinary programs. The Department of Biological Sciences has a curriculum designed to prepare students for specific careers, graduate school, and professional school. The city of Athens is a family-friendly and culturally diverse community.

Further details can be found at https://-www.ohiouniversityjobs.com/postings/44660 Diego F. Alvarado-Serrano Assistant Professor Biological Sciences Department Ohio University Website: http:/-/alvarado-s.weebly.com/ "Alvarado Serrano, Diego" <alvarado.s@ohio.edu>

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OhioU EvolutionaryPhysiology

Job Title Assistant Professor of Biological Sciences, Physiology (tenure-track)

Job Description The Department of Biological Sciences at Ohio University (https://www.ohio.edu/cas/biosci/) invites applications for a nine-month, tenure-track position at the rank of Assistant Professor with an expected start date of August 2023. We are interested in candidates who use integrative approaches (experimental, comparative, omics, or computational) to study the physiology of interactions between host, microbiome, and/or symbiont. We encourage but are not limited to considering applications from candidates whose research focuses on understanding how physiological processes in a host are affected by its microbiome, e.g., influences on metabolism, hormonal regulation, behavior, neurophysiology, aging, immune function, or pathophysiological mechanisms of a disease affected by the microbiome. Candidates will be expected to establish an innovative, extramurally funded research program. We seek applicants whose research interests complement and extend our departmental strengths in cellular and molecular biology, physiology, neuroscience, evolutionary biology, and ecology, and who can collaborate with faculty in a broad-based biology department. Faculty members in the department teach and mentor undergraduate, M.S., and Ph.D. students. Teaching will include an upper-level undergraduate course in Human Physiology and two additional courses that fill departmental teaching needs and are consistent with the candidate's expertise.

Diversity, Equity, and Inclusion Statement Ohio University is committed to creating a respectful and inclusive educational and workplace environment. Ohio University is an equal access/equal opportunity and affirmative action employer with a strong commitment to building and maintaining a diverse workforce. Women, persons of color, persons with disabilities, and veterans are encouraged to apply. We seek candidates who demonstrate an understanding of barriers to equitable outcomes inSTEMfields and a commitment to promote diversity and inclusion through research, teaching, and/or public engagement.

Ohio University and the Department of Biological Sciences Ohio University is a Carnegie Foundation R1 residential campus with an enrollment of over 25,000 students. Founded in 1804 and nestled in the foothills of the Appalachia, Ohio University Athens campus consists of nine colleges and multiple interdisciplinary programs. The Department of Biological Sciences has a curriculum designed to prepare students for specific careers, graduate school, and professional schools. The city of Athens is a family-friendly and culturally diverse community.

Minimum Qualifications Applicants must have a Ph.D. or equivalent degree in Biological Sciences or a related field, and postdoctoral experience.

Special Instructions to Applicants Please complete and submit the online application and submit the required documents and information.

Attach the following documents: 1. detailed cover letter describing interest in the position 2. current curriculum vitae 3. research statement 4. statement of teaching philosophy and accomplishments 5. one-page statement of contributions to and plans for enhancing diversity, equity and inclusion

Enter the following information when prompted: 6. names and contact information for three professional references. These referees will receive an email and unique link inviting them to provide a reference on your behalf.

Review of applications will begin immediately. This position will remain open until filled; for full consideration, please apply by February 13, 2023.

Pay Rate Salary is commensurate with experience and credentials and is accompanied by generous university benefits such as tuition for self and dependents, a comprehensive insurance package (including but not limited to health, prescription, vision, dental, and life insurance), an excellent retirement plan including company contributions, parental leave, adoption reimbursement, and more.OHIOis also proud to offer wellness programs, on-site wellness facilities, and a generous employee assistance program. Additional Information is available athttps://www.ohio.edu/hr/benefits/ . Diversity Statement Ohio University is proud of its rich history, diverse campuses, international communities, and beautiful Appalachian settings. As part of our ongoing efforts to provide and support a transformative learning experience, we affirm our commitment to fostering a welcoming, respectful, diverse, and inclusive workforce and community. All qualified applicants are encouraged to apply and will receive consideration free from discrimination on the basis of race, color, religion, age, ethnicity, national origin, national ancestry, sex, pregnancy, gender, gender identity or expression, sexual orientation, military

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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

OxfordBrookesU 3YrParttimeTechResAssoc Adaptation

The Department of Biological and Medical Sciences at Oxford Brookes University, UK are looking to recruit a Technical Research Assistant to join the Phenotypic Evolution and Adaptation team from April 2023. This is a part time (0.5 fte) contract for 3 years.

Qualifications required for post: Degree in Genetics, Developmental Biology, Molecular Biology or equivalent or experience working in a lab environment.

Experience required for post: Experience with general molecular biology methods, cell culture and insect husbandry. Good knowledge of Drosophila biology and CRISPR-mediated transgenesis - preference will be given to applicants with experience in these areas as well as in insect transgenesis but all necessary training will be provided.

Overall purpose of post: The successful candidate will be working at Oxford Brookes University on a BBSRC-funded project, in collaboration with Durham University and The Francis Crick Institute. The project aims to investigate how organ size differences between Drosophila species is specified. The role will involve maintaining Drosophila stocks and setting up crosses as well as carrying out molecular biology and cell culture preparation and experiments, and generating and microinjecting constructs.

As one of the largest employers in Oxford we pride ourselves in the great experience we offer our staff. You'll be joining a friendly, professional environment where every member of staff is recognised as important to the success of Oxford Brookes University. To find out more about the benefits of working for Oxford Brookes please visit: www.brookes.ac.uk/job-vacancies/working-at-brookes . The University has adopted equality, diversity and inclusion as core values. We welcome applications from suitably qualified candidates whatever their background, and especially from BAME candidates who are underrepresented in our workforce.

This role will not attract sufficient points to obtain a sponsored Skilled Worker visa under the points based immigration system, however applications are welcome from candidates who don't currently have the right to work in the UK, but who would be eligible to obtain a visa via another route.

*Faculty or Directorate: *Health and Life Sciences

*Location: *Gipsy Lane Site, Headington Campus

*For more information: **hrteam-recruitment@brookes.ac.uk* <hrteam-recruitment@brookes.ac.uk> To apply please follow: https://my.corehr.com/pls/oburecruit/erq_jobspec_details_form.jobspec?p_id=141239 Dr. M. Daniela S. Nunes Senior Lecturer in Evolutionary and Developmental Biology

Phenotypic Evolution and Adaptation Group Department of Biological and Medical Sciences Faculty of Health and Life Sciences Oxford Brookes University Sinclair SNC 1.01 Gipsy Lane, OX3 0BP Oxford, UK

Tel. +44 (0)1865 488629 https://www.brookes.ac.uk/-research/units/hls/groups/phenotypic-evolution-and-adaptation < https://www.brookes.ac.uk/BMS/-Research/Groups/Evolution-Ecology-Environment-and-Conservation/Evolutionary-Genetics/Phenotypic-evolution-and-adaptation/ >

twitter: @Nunes_Lab

Daniela Santos Nunes <msantos-nunes@brookes.ac.uk>

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PennsylvaniaStateU PartTime MetadataCurators

Do you have an interest in working with genetic biodiversity data and interest in supporting open science and research data reuse efforts? The Genomic Observatories Diversity Explorer (GEODE) research team seeks enthusiastic, detail-oriented, and inquisitive individuals interested in working with biodiversity data and supporting open science and research data reuse efforts. These Data Curator positions will play a key role on the Datathon team in improving the spatial and temporal metadata (data that describe the time and place that samples were taken) associated with biosamples from natural eukaryotic populations in the Sequence Read Archive of the International Nucleotide Sequence Database Collaboration (INSDC).The metadata collected during the datathons will allow genetic diversity to be assessed and utilized when conservation decisions are made. This will be accomplished through literature searches as well as contact with dataset authors.

Interested individuals should submit their applications and all supporting materials online. To be considered for the position, interested candidates should upload a resume or CV and fill out the application questionnaire. Qualified candidates will be asked to provide a brief letter of support from their graduate advisor or supervisor later in the application if available and applicable. Review of applications will begin immediately and continue until all 13 positions are filled.

We encourage applications from a diversity of backgrounds. Attention to detail and strong organizational skills are absolutely essential. Basic skills with spreadsheets and text files, literature searches, and writing professional emails are also required, and preference will be given to applicants with an interest or experience in population genomics and genetic biodiversity research. No specific coding skills are required.

Selected applicants will be paid $15 per hour to handle between 50 and 150 datasets (NCBI BioProjects), equivalent to 100 hours of work (8 hours per week for 3 months). Individuals will gain skills in data curation, experience with informational reading of the scientific literature, familiarity with data standards in biodiversity research, and will be able to develop their professional network through this opportunity. Work will commence on February 1st, 2023 and must be completed by May 1, 2023. Individuals will be expected to attend a one to two hour Zoom orientation, and a brief weekly Zoom check-in with GEODE personnel, but otherwise will be able to work according to their own schedule.

A previous datathon resulted in two publications with curator co-authors: 1.Toczydlowski, R. H. et al. Poor data stewardship will hinder global genetic diversity surveillance. PNAS 118, e2107934118 (2021). https://-doi.org/10.1073/pnas.2107934118 2.Crandall, E. D. et al. Metadata preservation and stewardship for genomic data is possible, but must happen now. 2022.09.12.507034 Preprint at https://doi.org/10.1101/2022.09.12.507034 (2022). (Now accepted at ConBio)

Please direct any inquiries to Briana Wham, bde125@psu.edu, Andrea Pritt, alp5088@psu.edu, or Eric Crandall, ecrandall@psu.edu

Application Questionnaire First Name Last/Family Name Email Current Role (e.g., graduate student, research technician, librarian, etc.) If you are a graduate student, what is the name and email of your thesis or doctoral advisor and what university will award your degree? Describe your research interests in one paragraph.

Please apply at this link < https://-psu.wd1.myworkdayjobs.com/PSU_Staff/job/Penn-State-University-Park/Part-Time-GEODE-Datathon—Data-Curators—Department-of-Biology—Crandall-Lab_REQ_0000039686-2 >

The Pennsylvania State University is committed to and accountable for advancing diversity, equity, inclusion, and sustainability in all of its forms. We embrace individual uniqueness, foster a culture of inclusion that supports both broad and specific diversity initiatives, leverage the educational and institutional benefits of diversity in society and nature, and engage all individuals to help them thrive. We value inclusion as a core strength and an essential element of our public service mission.

Eric Crandall <eric.d.crandall@gmail.com>

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SouthCarolina MarinePopulationGenetics

The Marine Resources Division for South Carolina Dept. of Natural Resources is hiring a permanent PhD level scientist to join a team investigating the genetics of natural marine populations of the SE USA. While experience with marine and/or freshwater species is desirable, we welcome anyone with skills in molecular labwork, bioinformatics, conservation and evolutionary genetics, or functional genomics to apply. This is an excellent position for someone looking to do impactful population biology research in a collaborative atmosphere, while still encouraging academic curiosity and connection.

OFFICIAL TITLE: Associate Marine Scientist LOCATION: Charleston SC SALARY: $58,405

JOB DESCRIPTION: The successful candidate will join our population genetics team to contribute to our population genetic and molecular tool research projects on marine and freshwater fishes in areas of stock enhancement, fisheries management, conservation, and tool development. Specific duties will include field and laboratory research, data collection and analysis, collection and data management, preparation of reports and presentations, authoring technical manuscripts, coordination and supervision of team personnel, proposal preparation, and budget management. Some projects will include work on multi-disciplinary teams.â€â€

MINIMUM EDUCATION AND EXPERIENCE: Applicants will be required to have an Ph.D. degree in biology, marine science, or population/evolutionary genetics and at least 5 years research experience following the award of their terminal degree. Individuals should have demonstrated abilities to conduct population genetics research including experimental design, data collection and analyses, and report preparation. Publication record and experience with microsatellites, automated sequencing systems, whole genome sequencing, and bioinformatics required; successful grant funding record preferred. Applicants must also have knowledge of marine and/or freshwater fishes of the southeastern US and the capability to work independently. Strong communication, quantitative, organizational, computer, writing and inter-personal skills required.

OTHER PREFERRED KNOWLEDGE, SKILLS AND ABILITIES: Valid SC driver's license and a copy of driving record are required. Applicant must have dependable transportation and a satisfactory driving record. A current CV is requested to supplement the required state application.

TO APPLY: Submit a state application and letter of interest via the SC State Job Website (www.jobs.sc.gov). For more information, contact Aaron Watson (watsona@dnr.sc.gov, 843-953-0462).

Lengxob 'Lenny' Yong, Ph.D.— Assistant Marine Scientist—

South Carolina Department of Natural Resources— Marine Resources Research Institute— 217 Fort Johnson Road— Charleston, SC 29412— Office: (843) 953-4647 Mobile: (843) 412-4177 YongL@dnr.sc.gov—

Lengxob Yong <YongL@dnr.sc.gov>

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SouthwesternOklahomaStateU TeachingEvolution

The Department of Biological Sciences at SWOSU seeks qualified individuals to serve as a full-time, Tenure-Track Assistant Professor of Biology. The candidate will be responsible for teaching a combination of General Education courses, Major's introductory and core courses, service courses and upper-level courses in their area of expertise. They will contribute to a growing undergraduate research program and will work with colleagues to integrate research into the biology curriculum. Startup funds and research space are available. The candidate is expected to participate in department and university service.

The Department of Biological Sciences values collegiality and inclusivity as it strives to provide an excellent learning environment for students. Additional information about the department can be found at: https://www.swosu.edu/academics/-academic-departments/biological-sciences/index.php . To apply visit: https://swosu.csod.com/ux/ats/-careersite/1/home/requisition/292?c=swosu . Rickey Cothran Associate Professor & Chair Department of Biological Sciences Southwestern Oklahoma

State Univ. rickey.cothran@swosu.edu https://-rdcothran.wixsite.com/hyalella "Cothran, Rickey" <rickey.cothran@swosu.edu>

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StockholmU FunctionalGenomicsAnimalAdaptation

The Department of Zoology at Stockholm University (https://www.su.se/department-of-zoology/) is seeking to hire an Assistant Professor in Functional Genomics of Adaptations in Animals as part of the Science for Life Lab (https://www.scilifelab.se) fellowship scheme. The subject covers functional genomics research on the processes and mechanisms that generate and maintain adaptations and genetic diversity within and across vertebrate or invertebrate species. The primary responsibility of the Assistant Professor is to carry out research, together with limited teaching responsibilities at the Department of Zoology. The position comes with generous financial support for recruiting co-workers and for sustaining research activities during the six years as assistant professor. An assistant professor can apply for promotion to a permanent position as associate professor if the criteria for promotion established by the Faculty of Science board is fulfilled.

Stockholm University is a leading European university and one of the worlds top 100 institutes for higher education and research. Stockholm University has more than 60,000 students and 5,000 staff. Sweden and Stockholm are consistently placed very high on global lists ranking quality of life, safety and social security. The Department of Zoology at Stockholm University consists of five divisions: Population Genetics, Ecology, Ethology, Functional Morphology, and Systematics and Evolution, thus covering research on animals from all angles. Research on the evolution of animal adaptations is a theme in common for all divisions, and the atmosphere is vibrant and highly cooperative. Research on functional genomics of adaptations in animals would be highly complementary to existing research, with many opportunities for collaboration. The position will initially be housed primarily at the Solna campus of SciLifeLab Stockholm and later at the department.

Qualification requirements In order to qualify for the position as assistant professor, the applicant must have completed a doctoral degree in Sweden or an equivalent degree from another country. In the first instance, an applicant should be considered who has received such a degree no more than five years before the deadline for applications. However, an applicant who has received such a degree earlier may be considered under special circumstances.

Further information about the position can be obtained from Professor Sören Nylin, soren.nylin@zoologi.su.se or Professor Christopher West Wheat, chris.wheat@zoologi.su.se.

Application Apply for the position at Stockholm University's recruitment system. Application should be written in English.

Closing Date: February 15th, 2023

To apply, go directly to this page: https://www.su.se/-english/about-the-university/work-at-su/available-jobs?rmpage=job&rmjob=19729&rmlang=UK Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Rhonda R Snook Professor Ecology Division Department of Zoology Stockholm University, Sweden

Rhonda Snook <rhonda.snook@zoologi.su.se>

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TempleU GenomicsEvolutionaryMedicine

Multiple Research Faculty Positions at Temple University

Multiple multi-year research faculty positions (non-tenure-track) are available in the Institute for Genomics and Evolutionary Medicine (iGEM) at Temple University in Philadelphia, USA.

Successful candidates will be a core faculty of iGEM (https://igem.temple.edu/people/core). They will be initially funded by existing research grants of participating faculty members (Sudhir Kumar, Sergei Pond, Jody Hey, Sayaka Miura, and Vincenzo Carnevale). Over time, selected research faculty members are expected to develop independent research programs.ï¿½They will have opportunities to mentor students and seek research funding.

At Temple, our strengths are in computational biol-

ogy, bioinformatics, phylomedicine, phylodynamics, phylogenomics, and molecular evolution. We are looking for colleagues developing theories, methods, algorithms, software, and resources to address outstanding evolutionary and biomedicine questions innovatively. We also welcome applications from candidates interested in analyzing big datasets.

Applicants should submit their detailed curriculum vitae (CV) and a summary of current and future research interests by email to s.kumar@temple.edu (send a single PDF file). Review of applications will begin immediately and continue until all the positions are filled.

Temple University is in the heart of historic Philadelphia and is the sixth-largest provider of graduate school education in the USA. Situated near New York City and Washington DC, Philadelphia is home to a large biotech industry and has many outstanding academic and research institutions. Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).ï¿½

Please write to Sudhir Kumar (s.kumar@temple.edu) or other participating faculty for further information (emails available at https://igem.temple.edu/people/-core).

Sudhir Kumar <s.kumar@temple.edu>

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TexasAMU 2yr EvolutionaryBiology

Excellent opportunity for early career scholars (earned their doctoral degrees between January 1, 2019 and July 1, 2023) for a two-year faculty position in the Department of Ecology and Conservation Biology at Texas A&M University (https://eccb.tamu.edu/), with the expectation of transitioning to tenure-track. The department has a strong focus on evolution and many faculty members are part of the interdisciplinary Ecology and Evolutionary Biology program (https://eeb.tamu.edu/). We are committed to building a diverse and inclusive community and strongly encourage candidates from underrepresented groups or who have experience working with a broadly diverse student population to apply.

http://apply.interfolio.com/112395 Accountability, Climate, Equity, and Scholarship (ACES) Assistant Professor - College of Agriculture & Life Sciences

Texas A&M University: College of Agriculture and Life Sciences: Ecology and Conservation Biology

Location College Station, TX

Deadline Feb 15, 2023 at 11:59 PM Eastern Time

Description Texas A&M University's Accountability, Climate, Equity, and Scholarship (ACES) Faculty Fellows Program is a faculty hiring program that connects early career faculty advancing outstanding scholarship with relevant disciplinary units on campus. Faculty are hired as ACES Assistant Professors with the expectation of transitioning to tenure track (pending departmental review) by the end of the fellowship period. ACES is administered by the Office for Diversity in partnership with the College of Agriculture and Life Sciences.

The ACES Faculty Fellows Program promotes the research, teaching, and scholarship of early career scholars who embrace the belief that diversity is an indispensable component of academic excellence. From this experience at Texas A&M, fellows should develop an understanding of the value of diversity and inclusion and the power that it holds for students, faculty, and staff to enrich their lives.

As a public, land-grant, Hispanic-serving (HSI) research university, Texas A&M upholds its responsibility to accountability, campus climate, equity, and scholarship by maintaining a campus that affirms equity and fosters inclusion and belonging. Significantly, Texas A&M holds itself accountable to improve campus climate and equity goals through clear, accessible measures. ACES Assistant Professors are afforded access to invaluable academic and professional development experiences to advance their careers as scholars. The objective is for ACES Assistant Professors to transition to tenure-track faculty by the end of the fellowship. ACES Assistant Professors will benefit from: prescriptive mentoring, access to instructional best practices, a vast array of world-class research and productivity resources, and a robust network of renowned Texas A&M scholars from across disciplines.

ABOUT THE ACES FACULTY FELLOWS PROGRAM

* Texas A&M University's ACES Faculty Fellows Program is up to a two-year (24 month) fellowship for early career PhDs. Applicants' degrees should be completed no more than four years from the time of application. ACES Assistant Professors begin their appointment in August. * The benefits and stipend are department specific. Benefits including medical, dental, and vision are available. The faculty fellowship period generally

begins August 1 and ends on July 31. Start dates are negotiable, but must commence between July 1 and August 10. * ACES Assistant Professors will receive reimbursement for one-time relocation fees, a research and travel allowance as specified in the position description, and a private office. * ACES Assistant Professors will teach one course per academic year, thereby benefiting from dedicated research time. Fellows will hold the title of ACES Assistant Professor. * A hallmark of the Texas A&M University's ACES Faculty Fellows Program is the mentoring ACES Assistant Professors will receive, as well as its attention to community-building.

Qualifications

Texas A&M University's ACES Faculty Fellows Program is up to a two-year (24 month) fellowship for early career PhDs. Applicants' degrees should be completed no more than four years from the time of application. Applicants' should have earned their doctoral degrees (PhD) between January 1, 2019 and July 1, 2023.

Applications are welcome from scholars with a strength in, and evidence of, a respect for diversity and inclusion. We invite applications from scholars whose work aligns with a field in the College of Agriculture and Life Sciences in Ecology and Conservation Biology (ECCB).

Application Instructions

Prior to beginning the online application, individuals are encouraged to review the instructions and the requested materials. Applications

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TowsonU MicrobiologyVirology

Assistant Professor of Microbiology or Virology TU Search Number: FCSM-3639 Assistant Professor of Microbiology or Virology Department of Biological Sciences Fisher College of Science and Mathematics FCSM-3639

Position: The Fisher College of Science and Mathematics invites applications for a 9-month tenure-track appointment in Microbiology or Virology within the Cell and Molecular Biology Area of the Department of Biological Sciences beginning August 2023.

Qualifications: Successful applicants are expected to possess a strong commitment to excellence in teaching, to establish a productive research/scholarly program in microbiology or virology involving undergraduate and master's students, and to actively pursue extramural funding for that research. Successful candidates are required to have a Ph.D. in the biological sciences and will likely have postdoctoral experience.

Responsibilities: The candidate's research program should be in microbiology or virology. Teaching responsibilities will include one or more of the following: microbiology or virology, an upper-level course in cell or molecular biology and an upper-level elective or graduate course in the candidate's area of specialization. Development of a course-based undergraduate research laboratory class (CURE) is also encouraged and supported.

Mission: The Department of Biological Sciences provides high-quality education to both undergraduate and graduate students, with a focus on the knowledge and skills necessary for success at Towson University and beyond. We are committed to providing students the opportunity to conduct authentic research, both through independent research in faculty labs, and in course-based undergraduate research experience (CURE) laboratory classes. In pursuit of this goal, the HHMI-funded Towson University Research Enhancement Program (TU-REP; https://www.towson.edu/fcsm/departments/stem/turep/) integrates research experience directly into the curriculum. TU-REP has been named a "2022 Inspiring Program in STEM" by INSIGHT into Diversity magazine. Towson University has also been named a top institution in the nation for gender equality and received the Higher Education Excellence in Diversity Award for three consecutive years. These awards highlight our ongoing commitment to our diverse study body in reaching their education and career goals.

Additional information about the Department is available at http://www.towson.edu/biology/. With more than 3,800 undergraduates, 56% of whom are students from groups traditionally under-represented in the sciences, the Fisher College of Science and Mathematics is one of the fastest growing and most diverse colleges at Towson University.

Towson University: Towson University was founded in 1866, is recognized by U. S. News and World Reports as one of the top public universities in the Northeast and Mid-Atlantic regions, is Baltimore's largest university, and is the largest public, comprehensive institution in the University of Maryland System. TU enrolls over 17,000 undergraduates and over 2,500 graduate students across six academic colleges (business, education, fine

arts, health professions, liberal arts, science & mathematics), has over 920 full-time faculty, and offers more than 65 bachelor's, 45 master's, and 5 doctoral programs. Our centrally located campus sits on 330 rolling green acres and is 10 miles north of Baltimore, 45 miles north of Washington D.C., and 95 miles south of Philadelphia.

Application Process: Review of applications begins January 3, 2023 and continues until the position is filled. Applicants should submit a letter of application that addresses the posting details and qualifications. Applications must also include: (1) a curriculum vitae, (2) a teaching statement, (3) a research statement that addresses current areas of expertise and future research agenda, and (4) a personal statement that demonstrates commitment to diversity, equity, inclusion and the mission of the University. All application materials should be submitted electronically via the application link, preferably in a single PDF file. Additionally, three letters of recommendation (under separate cover) should be sent via the link applicants will receive after submitting their application; referees should enter the candidate's name in the form when submitting their letter. Alternatively, letters of recommendation may be sent electronically directly to Mrs. Sarah Grue, Administrative Assistant (sgrue@towson.edu).

Please address any questions regarding the position or the search to: Dr. Colleen Winters at cwinters@towson.edu.

Official copies of undergraduate and graduate transcripts as well as a criminal background investigation are required for the hired candidate and the results may impact employment.

The safety of our students, faculty, staff, and neighbors has been

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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

Our research expertise in Bath encompasses multiple aspects of AMR, including the genetic basis and mechanisms of resistance, global epidemiological surveillance (in hospitals, agricultural and environmental settings), genomics and evolution, chemistry of drug delivery / development, pathogenesis, as well as public understanding, social science and ethnographic drivers of AMR spread.

Many of the world's hotspots for AMR emergence and spread are in resource poor areas (LMICs), primarily in South Asia, and we have multiple collaborations with colleagues working in these regions.

The Microbiology, Infection & Inflammation (MI3) theme of the newly formed Department of Life Sciences includes multiple research groups with a focus on the genomics and epidemiology of AMR, evolution, genetics and mechanisms, pathogenesis and drug discovery/ delivery. https://www.bath.ac.uk/departments/department-of-life-sciences/ We would encourage applicants who's research interests are multi-disciplinary, to take advantage of the breadth of AMR expertise at the University.

For more information and to apply: https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=CC10152
About the Prize Fellowships: Our Prize Fellowship scheme offers early-stage researchers the opportunity to join a cohort of like-minded rising research stars. These two-year research fellowships in our priority research areas are part of a scheme intended to fast-track fellows to a permanent appointment at Bath. Alumni of the scheme have become scientific leaders, progressing rapidly within the university to Senior Lecturer, Reader and Professor.

More information about the Prize Fellowship scheme is here: https://online.flippingbook.com/view/771439945/ For further enquires contact Ed Feil (e.feil@bath.ac.uk)

Edward Feil <bssef@bath.ac.uk>

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UBath AntimicrobialResistance

Title: UniversityofBath.Fellowship.AntimicrobialResistance

Applications are invited for a Prize Fellowship position at the University of Bath, UK, in any area of research related to Antimicrobial Resistance (AMR)

UBath UK Bioinformatics

As part of the formation of the new Department of Life Sciences(through a merger between Biology & Biochemistry and Pharmacy & Pharmacology), we are aiming to strengthen big-data science.

We are now looking to recruit a Senior Lecturer or Reader in Bioinformatics to direct and shape data-driven bioscience teaching and research across the Life Sciences.

About the role:

You will lead an independent cutting-edge original research program in the field of bioinformatics and have a strategic role in the development of innovative computational approaches and strengthening bioinformatic support within the Dept of Life Sciences. You will deliver high-quality teaching and will lead our postgraduate MSc (Bioinformatics) degree program and contribute to further undergraduate and postgraduate teaching.

About you:

You will have an established track record of outstanding achievement in bioinformatics evidenced by high impact publications and grant income and an internationally competitive research program that will contribute significantly to University, UK, and global priorities in pure and applied research. Preference will be given to those with experience in eukaryotic and/or pathogen genomics and post genomics and can demonstrate the greatest potential for collaboration and innovation. You will be committed to developing your teaching at undergraduate and postgraduate level and be able to teach coding, bioinformatics and statistics at both under- and postgraduate level.

About us:

The Life Sciences Department brings together existing strengths, expertise and excellence from the departments of Biology & Biochemistry and Pharmacy & Pharmacology, under one umbrella. The Department overlaps several cross-department research centres, including the Milner Centre for Evolution where the successful candidate will be based. The Milner Centre for Evolution is recognised externally as one of the strengths of the University and will continue to play a pivotal role in the new Dept of Life Sciences. You will also have access to the ongoing Milner Centre for Evolution Doctoral Training Programme (DTP), which provides fully funded studentships for a four-year research and outreach programme leading to a PhD as well as other Doctoral Training Programmes funded via UKRI (BBSRC, MRC and NERC).

And the job advert: https://www.bath.ac.uk/jobs/-Vacancy.aspx?ref=CC9705R Further enquiries to: Laurence D. Hurst:l.d.hurst@bath.ac.uk

or Ed Feil:bssef@bath.ac.uk

Laurence Hurst <bssldh@bath.ac.uk>

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UBath UK Evolution

To further enhance its academic base, the Faculty of Science at The University of Bath is making a strategic investment in recruiting University of Bath Prize Fellows to strengthen and develop existing research excellence.

We are welcoming applications across numerous research areas, one of which isTheoretical or Empirical Studies in Evolution.The successful candidate will be placed within theMilner Centre for Evolution.

About the Milner Prize Fellowship Our Prize Fellowship offer early-stage researchers the opportunity to join a cohort of like-minded rising research stars. These two-year research fellowships in our priority research areas are part of a scheme intended to fast-track fellows to a permanent appointment at Bath. Alumni of the scheme have become scientific leaders, progressing rapidly within the university to Senior Lecturer, Reader and Professor. As a University of Bath Prize Fellow you will have the opportunity to:

conduct high quality research as an independent researcher, including securing funding via research grants and/or fellowship applications and building a research group appropriate to the academic department and discipline;develop international research links;contribute to advanced undergraduate teaching and supervision, training and research of graduate students;promote research in the discipline, including public engagement.

Find out more about these opportunities, by viewing our interactive brochure: https://-www.bath.ac.uk/jobs/Upload/vacancies/files/22149/-PrizeFellowBrochure.pdf And the job advert: https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-CC10159 Further enquiries to Director of the Milner Centre for Evolution: Laurence D. Hurst

University of Bath Bath Somerset, UK BA2 7AY

Tel: +44 (0)1225 386424

Email: l.d.hurst@bath.ac.uk

Laurence Hurst <bssldh@bath.ac.uk>

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UBritishColumbia AMR Evolution

Assistant Professor of Antimicrobial Resistance, University of British Columbia

The Department of Microbiology & Immunology at the Vancouver campus of The University of British Columbia invites applications for one or more faculty positions in Antimicrobial Resistance to start no earlier than July 1, 2023. This is a tenure track position at the Assistant Professor level and part of an initiative to recruit a cluster of faculty to address emergence, persistence, and treatment of infectious diseases in humans and their ecosystems. Applicants specializing in understanding the evolution and mechanisms of antimicrobial resistance including in the context of the microbiome, as well as the use of novel approaches including alternatives to antibiotics, synthetic biology, or chemical biology to discover and engineer novel antimicrobials and anti-infectives are strongly encouraged to apply.

The position requires a PhD, postdoctoral experience, and a strong record of research achievements and publications in this field. The successful applicant will be expected to develop an innovative, externally-funded and internationally-competitive research program; supervise graduate students and postdoctoral fellows; collaborate with faculty members; teach undergraduate and graduate courses in microbiology, virology, or immunology; and participate in service to the department, university, and academic/scientific community. Candidates will have strong commitment to equity, diversity, and inclusion and a commitment to creating a welcoming community where those who are historically, persistently, or systemically marginalized are treated equitably, feel respected, and belong. The successful candidate will become a member of the Department of Microbiology & Immunology (www.microbiology.ubc.ca). The Department includes 25 research faculty with strengths across the disciplines of microbiology, virology, and immunology including microbial genomics, data science, functional screening, as well as host-pathogen interactions. The successful applicant will establish their laboratory in the Life Sciences Institute (lsi.ubc.ca), which houses 85 laboratories across 10 departments, providing ample opportunity for cross-disciplinary collaborations. The new hire will have access to outstanding resources for animal and organoid models, gnotobiotic and level 3 containment, acoustic liquid handling and microfluidics, high-throughput screening, cell sorting, bulk and single-cell sequencing and transcriptomics, microscopy, metabolomics, and proteomics.

Applicants should submit: 1. Cover letter (up to two pages) that outlines your research vision and accomplishments, your teaching philosophy and experience, and leadership activities in academic service, equity, diversity, inclusion, and community engagement. 2. Curriculum vitae. 3. Summary of research interests describing two potentially fundable projects (maximum 4 pages). 4. Statement of teaching interests and accomplishments (maximum 2 pages). 5. Statement describing your past contributions to equity, diversity and inclusion, along with your ability to work with a culturally diverse student body (giving specific examples where possible), as well as your philosophy of and potential future contributions to equity, diversity and inclusion (maximum 1 page). 6. Names and contact information for 3 referees.

Apply through Academic Jobs Online: https://-academicjobsonline.org/ajo/jobs/24107 Review of completed applications will begin on February 10, 2023.

UBC is a global centre for research and teaching, consistently ranked among the top 20 public universities in the world. The UBC Vancouver campus is situated on the traditional, ancestral, and unceded territory of the Musqueam people. Since 1915, UBC has been opening doors of opportunity for people with the curiosity, drive and vision to shape a better world. UBC is dedicated to ensuring that diversity, equity and inclusion are embedded throughout the university's academic and work life, recognizing that significant work remains to be accomplished. For example, UBC's vision is to be a world leader in the implementation of Indigenous people's human rights and is guided in a mission of reconciliation as articulated and called for by the Truth and Reconciliation Commission of Canada. It is firmly committed to recruiting Indigenous faculty, students, and staff as outlined in its Indigenous Strategic Plan. As one of the world's leading universities, UBC creates exceptional research and learning environments to foster global citizenship, advance a civil and sustainable society, to serve the people of British Columbia, Canada, and the world. UBC hires on the basis of merit and is committed to employment equity. Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have

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UMissouri StLouis AnimalDiversity

E. Desmond Lee and Family Fund Endowed Professorship in Zoological Studies at the University of Missouri - St. Louis in partnership with Saint Louis Zoo

Nominations and applications are invited for the E. Desmond Lee Endowed Professorship in Zoological Studies to be filled by an outstanding scientist in an area of research that incorporates ecology, evolution, and conservation approaches to animal diversity. The appointment may be made at either the associate or full professor rank. This tenured position was established to enhance the partnership between the University of Missouri-St. Louis and the Saint Louis Zoo, where the endowed professor will have senior scientist status. The professorship is one of 36 endowed professorships comprising the Des Lee Collaborative Vision (DLCV, https://www.umsl.edu/-desleecollaborative/index.html), which are distinct from more traditional academic positions in having a responsibility for community outreach and engagement. Therefore, we seek a broadly interactive colleague who is interested in crossing disciplinary boundaries within science and from science to a broad and diverse community.

The University of Missouri-St. Louis is a leader in partnerships with key institutions in the St. Louis Region. Alliances and programs have resulted from collaborations with the Saint Louis Zoo, Missouri Botanical Garden, St. Louis Science Center, Danforth Plant Science Center, and many others. The partnership with the Saint Louis Zoo includes collaboration with the Whitney R. Harris World Ecology Center at UMSL (https://www.umsl.edu/hwec/index.html), which promotes research and education in ecology, evolution, and conservation, and participation in our outstanding graduate program that attracts top scholars from around the world. The Department of Biology also has an active research group in cell and molecular biology and participates in a joint program in biochemistry and biotechnology. The Saint Louis Zoo has two Institutes dedicated to the conservation of species around the globe: The Wild-Care Institute (https://www.stlzoo.org/conservation/-wildcare-institute), with its 17 Conservation Centers dedicated to Conservation Research, Wildlife Recovery and Rehabilitation, and Support of Communities that Coexist with Wildlife, and the Institute for Conservation Medicine with its One Health perspective.

As one of the most culturally and ethnically diverse campuses in Missouri, UMSL is committed to maintaining a climate where students, faculty, staff and visitors can explore their interests, refine their talents and flourish. Inclusive excellence is embedded in our strategic plan which focuses on actions to recruit and retain diverse students and employees and promote activities that encourage civil and constructive discourse, reasoned thought and sustained dialogue in an environment of inclusion, respect and appreciation. The Department of Biology values collegiality, collaboration, and curiosity. We strive to create an environment where our faculty and students can thrive. In order to foster the knowledge and talent required to tackle the challenges of the modern world, it is essential to have a variety of voices, perspectives, backgrounds, and experiences at the table.

The Des Lee Endowed Professor in Zoological Studies is expected to pursue an active program of research in zoology and oversee a laboratory at the University that facilitates the training of students. Areas of particular interest are ecology, evolution, and/or conservation. The endowed professor will be engaged in community outreach and will have teaching responsibilities. The professor is expected to take an active and integrative approach and exhibit, in their scholarship, both intellectual rigor and accessibility to a wide range of diverse audiences. In keeping with the Des Lee Collaborative Vision, the successful candidate will have a demonstrated interest in, and skills relevant to, engaging scholars outside their focused research specialty, and in engaging a diverse community outside the academy. Laboratory and office space at the University, in addition to all research facilities at the Saint Louis Zoo, will be available to the successful candidate. The position includes an annual budget in support of the collaboration between the University and the Zoo.

The application review process will start in late-January 2023 and will continue until the position is filled. The position will be available beginning Fall 2023, but the start date is negotiable. For full consideration, candidates must provide a cover letter outlining qualifications and interests, detailed curriculum vitae, statement of current and future research plans, and a statement of experience and

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UNacionalAutonomadeMexico EvolBiol

Faculty Position. Integrative Biology Institute of Biology, Universidad Nacional Autonoma de Mexico

The Universidad Nacional Autonoma de Mexico (UNAM, www.unam.mx) is Mexico's preeminent public higher-education center. UNAM is among the highest-ranking Spanish-speaking, and Latin American, universities. The Institute of Biology is a research center on the main campus of UNAM in Mexico City, with a three-part mission: to discover, describe and systematically document biota; to conduct scientific research about its origin and maintenance, composition, relationships, distribution and interactions; and to conserve and develop sustainable use for the wellbeing of society and the planet. The Institute of Biology houses the National Biological Collections of Mexico, including ten zoological collections, and the National Herbarium. The faculty at the Institute of Biology has a long tradition, expertise, and leadership in taxonomic and systematic research on various plants, animals, and fungi; their composition, distribution, and traditional uses. In recent decades, phylogenetic estimation of relationships among organisms, including the generation and use of genomic data, has proliferated. Nevertheless, research about higher-level evolutionary patterns and processes that underlie and determine the different dimensions of diversity and distribution of biota, that transversally integrate different types of organisms, are few and incipient.

The Institute of Biology aims to promote research on higher-level evolutionary patterns and processes that cause and determine biodiversity, and invites applications for one tenure-track full-time position as Research Scientist in Integrative Biology. This full-time position will be assigned to the newly created Unit for Synthesis in Systematics and Evolution (UniSSE), at a faculty level commensurate with skills and experience.

Candidate's Profile We seek candidates capable to propose and develop integrative research lines about patterns and processes that cause and determine different dimensions of biodiversity. Candidates with research interests based on analyzing and synthesizing data from biological collections, biotic inventories, and/or cybernetic databases, and whose research proposes transversal approaches among different types of organisms, and the link between taxonomic and inventory research with their macroevolutionary context, are encouraged to apply.

Ideal candidates should have: 1. The ability to integrate key concepts among several of the following disciplines: systematics, comparative phylogenetics, biogeography, evolution, or similar lines within and among different groups of organisms. 2. The ability to propose and develop integrative research on evolutionary patterns and processes that underlie biodiversity, a. preferably including the use of data from biological collections, biotic inventories and/or biodiversity databases at a global level; b. preferably encouraging transversal interactions with and among specialists in taxonomy and systematics of different types of organisms; c. fostering students in this line of research through direct mentorship and teaching. 3. Experience in methods for handling large volumes of biological (e.g., biological collections, genetic/genomic, morphological, ecological), environmental, and/or geographical data to address questions about the evolutionary processes underlying different dimensions of biodiversity. 4. The ability to analyze different types of information (e.g., phylogenetic, biotic, environmental, geographic), and temporal and spatial scales. 5. The ability to interact with specialists on different taxonomic groups and fields within Biology. 6. The ability to mentor students in emerging research topics.

Requirements 1. Doctorate or Ph.D. degree in science. 2. Knowledge and professional experience of at least five years (including graduate education) in integrative research on evolutionary patterns and processes underlying biodiversity. 3. Preferably with postdoctoral experience. 4. Authorship of research articles on the topic of the position. 5. Non-native speakers must be fluent in the Spanish language.

Application and Supporting Documents To apply, please send the following documents to sacademica@ib.unam.mx, with a copy (Cc:) to secacad_vl@ib.unam.mx. 1. Curriculum vitae (CV), including academic degrees and publication history. 2. Description of research conducted during at least the last 3 years (maximum 2 pages). 3. Research proposal to be developed in three years (in the context of a longer research plan), to investigate the underlying causes of one or several dimensions of biodiversity (e.g., morphological, phylogenetic, geographic, ecological); in one or several of the following areas: origin, evolution, diversification; using data from

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UPittsburgh ChairDeptComputationalBiol

Professor & Chair Med-Computational and Systems Biologyï¿½-ï¿½Pennsylvania-Pittsburghï¿½-ï¿½(22009899)

The University of Pittsburgh School of Medicine invites applications and nominations for the position of Chair, Department of Computational and Systems Biology. Founded in 2004 as one of the first US departments of computational biology, the Department conducts research spanning modeling of biological molecules and systems based on physical principles; analysis of genomic and other large, multidimensional data sets; development of computational models for signaling and metabolic pathways; fundamental questions involving evolution and development; and elucidation of macromolecule-small molecule interactions including drug candidate discovery. The Department includes both purely computational and computational-experimental research teams. In addition to driving independent research programs, investigators in the Department collaborate with scientists across the University of Pittsburgh and around the world on a wide range of fundamental and applied problems.

As an adjunct to its strong research program, the Department leads several diverse training programs, including a partnership with its Pittsburgh neighbor Carnegie Mellon University in a joint Ph.D. program in Computational Biology. Educational experience with a deep commitment to interdisciplinary training, mentoring, and advising all levels of trainees is essential for the incoming chair.

The ideal Chair candidate will be an internationally recognized scholar and passionate educator who holds a Ph.D. in a field related to Computational Biology, broadly defined, and who will work collaboratively with the faculty, students, and staff of the Department and with the leadership of the University of Pittsburgh School of Medicine to advance computational and systems biology. We seek a highly collaborative, outstanding communicator who is committed to demonstrating the values of diversity, equity, and inclusion with qualifications commensurate with an appointment as a tenured full Professor at the University of Pittsburgh. Please submit a curriculum vitae and a letter of interest/cover letter to Home | Talent Center: Careers at Pitt | University of Pittsburgh using requisition #22009899. Applications received by February 15, 2023, will be given priority.

The University of Pittsburgh is committed to championing all aspects of diversity, equity, inclusion, and accessibility within our community. This commitment is a fundamental value of the University and is crucial in helping us advance our mission, which includes attracting and retaining diverse workforces. We will continue to create and maintain an environment that allows individuals to discover, belong, contribute, and grow, while honoring the experiences, perspectives, and unique identities of all.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EOE, including disability/vets.ï¿½The University of Pittsburgh requires all Pitt constituents (employees and students) on all campuses to be vaccinated against COVID-19 or have an approved exemption. Visit coronavirus.pitt.edu to learn more about this requirement.ï¿½

Assignment Categoryï¿½Full-time regular Campusï¿½Pittsburgh Required Attachmentsï¿½Cover Letter, Curriculum Vitae

"Honick, Sandra Marie" <honick2@pitt.edu>

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USDA-Newport Oregon ResAssoc ShellfishGenomics

RESEARCH ASSOCIATE Genomics - Molecular biology Location: Newport, Oregon USA

The Coastal Oregon Marine Experiment Station (COMES) at Oregon State University invites applications for a full-time (1.00 FTE), fixed-term Research Associate position.

The Research Associate will contribute to the objectives of the newly formed USDA-Agricultural Research Service Pacific Shellfish Research Unit and the project "Improving the Sustainability and Productivity of Shell-

fish Culture in Pacific Estuaries" This position is being created to advance the work under a Non-Assistance Cooperative Agreement (NACA) between the USDA-ARS and Oregon State University.

The incumbent will work with the USDA-ARS Pacific Shellfish Research Unit and the Coastal Oregon Marine Experiment Station (COMES) with a focus on the molecular mechanisms of sex determination in the Pacific oyster Crassostrea gigas.

Pacific oysters are one of the most important commercial oyster species in the world and important contributors to the U.S. Pacific coast economy. Knowing the sex of individual oysters at the time of spawn is critical for crossing of animals in breeding programs. While Pacific oysters are dioecious (females and males are separate individuals) they lack any secondary sex characteristics making the sexing of individuals a significant challenge. In addition, Pacific oysters show occasional hermaphroditism and multiple events of sex reversal during their lifespan. Understanding the mechanisms that underly sex determination and reversal in this species will help in developing tools for precise and early identification of the sex outcome during spawns. Goals for this project include elucidating molecular mechanisms of sex determination and identifying early markers that can be used to identify sex of maturing individuals.

MINIMUM/REQUIRED QUALIFICATIONS:

->Ph.D. in the biological sciences related to aquaculture, veterinary, molecular biology, genetics, or genomics

->Experience with: Molecular biology and bioinformatics Analyzing high throughput sequencing data Writing and publishing peer-reviewed scientific papers

->Demonstrated knowledge of basic statistic methods including experimental design, use of linear models and multivariate statistics

->Demonstrated leadership, collegial attitude and communication skills

->Ability to work independently and as part of a team

PREFERRED (SPECIAL) QUALIFICATIONS:

->Experience working with shellfish

->Proficiency in one or more programming languages

->Experience with bash scripting and working in high performance computer clusters

->Demonstrable commitment to promoting and enhancing diversity

POSITION DUTIES:

60% Research Utilize genome-wide inquiry tools, including but not limited to transcriptomics, epigenomics and/or mutant screenings Engage in research design and support including: Assistance with identification of relevant lines of inquiry Selection of research methodology Design and implement experiments in the field and lab Analyze experimental data, interpret results, and draw conclusions

25% Publications and Presentations Contribute to/co-author research publications in collaboration with USDA and OSU scientists Present research at conferences, meetings and public forums

10% Supervision and Mentorship Work collaboratively with students and other staff to integrate research plans to optimize returns from collective research efforts Plan and assign work for ARS technicians and OSU student.

5% Outreach Communicate with U.S. Pacific Coast oyster industry and other stakeholders about research activities, results and expectations

Bernarda.Calla@usda.gov

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USouthernCalifornia StaffSci PopulationGenetics

Staff scientist position at USC in human medical and population genetics

The Chiang lab < http://chianglab.usc.edu/ > utilizes cutting-edge analytic tools to address questions at the intersection of human medical and population genetics. In particular, we have a strong interest in *using genomic data to understand the evolution and architecture of complex traits and the history of diverse human populations.* These insights will be critical for future medical genetics studies and in practicing personalized medicine. The successful candidate will have substantial input in the nature and the direction of the ongoing research projects within the lab and will be encouraged to explore projects that broadly fit within the lab's research interests and funded R35 and R01 grants. These goals include learning about demographic history or natural selection from genetic variation data, or understanding genetic architecture and evolutionary history of complex traits in diverse populations. *Opportunities are available for both method development as well as analysis of large-scale genotyping and next-generation sequencing data in humans from diverse populations. *

The candidate can be funded through multiple sources:

(1) *R01:* on the genetic history, statistical genetics and genetic epidemiology of metabolic traits and PRS of Pacific Island populations (Native Hawaiians, Samoans). Will have access to newly generated whole genome sequencing data and genome-wide array data.

(2) *R01:* on method development for statistical and population genetic applications based on the ancestral recombination graph (e.g. Fan et al. AJHG 2022 < https://www.sciencedirect.com/science/article/pii/-S0002929722001124 >).

(3) *R35:* broadly on the consequence of natural selection and demography on evolution of human traits (e.g. Chen et al. AJHG 2020 < https://www.sciencedirect.com/science/article/pii/-S0002929720301610 >), including expanding the framework to other population datasets such as Taiwan Biobank.

(4) *Unrestricted funds:* there is room for postdocs and scientists to explore research topic broadly consistent with the research direction of the lab, through either method development or empirical explorations.

The candidate will also have access to data in Multiethnic Cohort (https://uhcancercenter.org/mec < https://t.co/Mo7sQBoYuU >), including new GWAS and WGS data being generated, and multi-omic data in pipeline. Broad mentorship across different fields (epidemiology, statistics, population genetics, etc)

Scientist position is for *2-5 yrs depending on the career goals of the candidate*. Position is for those with previous successful experience as postdoc in a relevant field, and extendable at the end of the initial appointment. Salary starting at *$90,000 a year*, commensurate with experience and expertise. There will be opportunities to transition to staff scientist or faculty position within the Center for Genetic Epidemiology at USC for the promising scholars.

Because of the various ways the position can be funded, *start date is flexible throughout 2023*. Some level of working from home is possible. We are actively establishing a vibrant and respectful culture in the research group. See brief notes on how we are working towards this goal here: http://chianglab.usc.edu/resources.html < https://t.co/bayzRtcLJN >

Candidates should have a Ph.D. in genetics, computer science, bioinformatics, computational biology, or a related field. Proficiency in one or more programming languages (e.g. python, perl, C++, R, etc.) and in Unix-based computing environment is desirable. Candidate should have at least a previous successful postdoc research experience in a relevant field. Experience in conducting human genetics or population genetics research and analyzing large genetic datasets is a plus.

Interested candidates should submit a CV with contact information for 2-3 references. Reference letters are accepted, but not required at this stage. Material should be directly submitted to Charleston Chiang at *charleston.chiang@med.usc.edu*.

Charleston W. K. Chiang, Ph.D. Assistant Professor Population and Public Health Sciences Center for Genetic Epidemiology Keck School of Medicine, USC http://chianglab.usc.edu Twitter: @CharlestonCWKC

Charleston Chiang <charleston.chiang@gmail.com>

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UVirginia Tech HostParasite

The Department of Biology is hiring a Lab and Research Technician in the Gibson lab at the University of Virginia to assist with ongoing projects in the lab. We're looking for approximately an April start date.

The Gibson lab (coevolving.org) at the University of Virginia studies the evolutionary ecology and genetics of host-parasite interactions with the goal of understanding how organisms adapt to rampant uncertainty - uncertainty in the species and strain of parasite a host might encounter and uncertainty in the environment in which that encounter will unfold. Our research primarily makes use of the fabulous experimental tools and resources available for the model nematode C. elegans and its natural parasites. These include experimental evolution with cryogenic preservation, high-throughput phenotyping, a variety of transgenic methods, and wild isolates with whole genome sequences. We also tackle our questions using greenhouse and field experiments on plant-associated nematodes and their parasites. Researchers in the lab have ample opportunity for creative experimental design, independence, and training in a variety of skills and areas of scholarship. In joining the lab, new members sign on to our commitment to promoting an inclusive and safe environment, supporting all the members of our team in realizing their full potential, and actively valuing the creativity and productivity that comes from the meeting of diverse minds.

Lab and Research Technician 1 employees focus on performing routine research tasks and developing skills.

They assume routine to moderately complex technical support for research projects. Work is routine and can be performed with some degree of independence when following established protocols and procedures. Lab and Research Technician 1 employees perform tasks as assigned by supervisor.

Qualified candidates will show attention to detail, excellent record-keeping, an ability to learn on the job, and strong organizational and communication skills. Qualified candidates will also be comfortable with fine motor tasks and microscopy. Experience performing basic molecular techniques including DNA extraction, PCR, or gel electrophoresis, and familiarity with Excel and R is preferred.

Duties will include: - Performing phenotyping assays to measure parasite resistance - Overseeing and assisting in experimental evolution projects - Conducting molecular work to identify the genetic basis of phenotypes - Entering and formatting data for analysis - Staying up to date on relevant experimental techniques and implementing these in the lab to improve accuracy and efficiency - Maintaining cleanliness and proper functioning of equipment - Training undergraduates in the lab and managing their schedules and responsibilities - Animal husbandry, including tracking levels of archived stocks, archiving additional stocks, ordering new stocks, and maintaining the condition of stocks - Ensuring normal day-to-day operations of the lab and compliance with environmental safety standards.

This full-time position will remain open until filled. This is a restricted position contingent on continued funding.

APPLICATION PROCESS: Process for External Applicants: Please apply through Workday, and search for "BIOL - Gibson Lab Tech 1" (https://uva.wd1.myworkdayjobs.com/en-US/UVAJobs/job/Charlottesville-VA/BIOL—Gibson-Lab-Tech-1_R0038428). Complete an application online and attach a cover letter, CV/resume, and contact information for three professional references (name, email address, telephone number, and address).

Process for Internal UVA Applicants: Please apply through your Workday Home page, search "Find Jobs", and search for "BIOL - Gibson Lab Tech 1". Complete an application online and attach a cover letter, CV/resume, and contact information for three professional references (name, email address, telephone number, and address).

For questions about this position or the application process please contact the PI Amanda K Gibson at amandakgibson@virginia.edu or Rich Haverstrom, Faculty Search Advisor, at rkh6j@virginia.edu.

MINIMUM REQUIREMENTS Education: High school diploma or equivalent

Experience: At least 1 year of lab experience, which may include student experience. Bachelor's degree will be considered in lieu of experience. A BA in Biology or a related field and prior experience (2-4 years) working in a laboratory setting, and experience with basic laboratory techniques (e.g. preparing media) and dissecting scopes is preferred.

Licensure: None

PHYSICAL DEMANDS This position can spend extensive periods of time standing and squatting while conducting experiments or caring for animals. Also requires

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Vienna EvolutionTreeDefence

Research Position

Austrian Research Centre for Forests (BFW) (https://bfw.gv.at), in Vienna (Austria), invites applications for a one-year full research position for the study of molecular evolutionary defense response of Norway spruce to Bark beetle attack with an expected start date in April 2023.

We (in the Unit of Provenance research and Breeding in the Department for Forest Growth, Silviculture and Genetics at BFW) are seeking an experienced and highly motivated researcher in plant molecular biology and pathology to join our growing team of scientists and practitioners. This is a unique opportunity to work in a collaborative environment with a dynamic team engaged in the molecular breeding of forest tree species. Our group specializes on genetics and molecular defense responses, and is greatly interested in deciphering the Norway spruce molecular defense response to bark beetle attack. A specialist on this topic is missing in our unit so far.

Your Responsibilities: The researcher will participate in a new project funded by the Austrian Forest Fund. The projects' aim in general is to identify genes and

metabolic pathways involved in the induced defense response in Norway spruce (Picea abies) upon bark beetle attack (Ips typographus) by a combined transcriptomic (RT-qPCR, RNA-Seq) and metabolomic (Terpenoids, Phenolics, Hormones) approach. The job profile includes the selection of Norway spruce plots to be artificially infected, the planning and installment of in-natura infection attack controlled experiments, the establishment of the most appropriate protocol for collection and processing of samples for metabolomics and transcriptomics, scientific data analysis and interpretation, scientific discussions with our researchers on genetics and plant molecular defense biology, as well as project management duties (reporting, coordination, etc.) and scientific writing that summarizes results in a manuscript.

Your Profile: The research project will be carried out at the Austrian Research Centre for Forests (BFW) in collaboration with the team member Priv.-Doz. Dr. S. Netherer from the University of Natural Resources and Life Sciences (BOKU) in Vienna. The successful candidate is expected to disseminate research findings in peer-reviewed journals, as well as through public engagements and other scientific platforms. - M.Sc.degree in Plant molecular biology, especially on biotic stress, transcriptomics, and metabolomics. However, this is not a PhD position. One scientific publication in this area will be greatly appreciated. - Experience on plant molecular biology including transcriptomics and metabolomics is needed. Experience on forest pathology and entomology is well valuated. - Knowledge on genetics, transcriptomics, and metabolomics. Knowledge on bark beetle is appreciated. - Knowledge on the biology of the main plant molecular defense pathways: Plant-Pathogen interaction, MAPK signaling, Plant hormone signal transduction and main plant secondary biosynthetic pathways. - Experience with basic research principles and methods, applied statistics, data acquisition, management of big data sets, and publishing of results. - Scientific writing skills. - Strong written and verbal communication skills. - High level of self-organisation and willingness to work in a team. - Willingness to travel in Vienna and outside Vienna for sampling, data collection, data analysis and scientific discussions. - Knowledge of Statistics and R for data analysis. Other programming languages are also welcome (e.g. Python).

We offer: Located close to Schönbrunn Palace in the city of Vienna, our scientists and staff are committed to creating a workplace culture that respects and celebrates diversity and values the well-being of all employees. This is a 40 hour, 1 year term position beginning 1st of April 2023 or until the position is filled. The gross monthly salary is at least EUR 3.315,10 based on salary scale for federal employees in evaluation group v1/1.

Others: Reference is made to ç 43 in conjunction with ç 11b and ç 11c of the Federal Equal Treatment Act, according to which women who are as equally qualified as male applicants will be given preference when the position is entrusted. ?

Important: If we have raised your interest, please send your application including a cover letter detailing your motivation, your CV and contact information for three references, a Letter recommendation. *at least one. by February 1st, 2023 to the Federal Research and Training Centre for Forests, Natural Hazards and Landscape, 1130 Vienna, Seckendorff-Gudent-Weg 8 via e-mail to: marcela.vanloo@bfw.gv.at ?For further information, please contact Marcela van Loo (marcela.vanloo@bfw.gv.at)

Vanloo Marcela <marcela.vanloo@bfw.gv.at>

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Other

CopyOf LeuteneggerCheverud1985

Hello all, I wonder if anyone has a pdf of Leutenegger W & Cheverud JM 1985. Sexual dimorphism in primates. In Size and Scaling in Primate Biology (ed WJ Jungers) that they could share? If you can, please mail to

d.j.hosken@exeter.ac.uk

Thanks in advance David

"Hosken, David" <D.J.Hosken@exeter.ac.uk>

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CUNY Brooklyn SummerREU UrbanAdaptation

Hi all,

Brooklyn College and the City University of New York are now accepting applications for our summer REU in Urban Ecology and the Environment (BUEE) that will run this summer from June 5 through August 11. BUEE offers an integrative summer research program aimed at developing early-career undergraduate students into mature and thoughtful environmental scientists - many of our research projects have a strong evolutionary focus, and investigate how plants and animals adapt to urban environments.

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

More information on the program, including potential projects, can be found at the program homepage at https://buee.blog.brooklyn.edu, or by contacting the program PI at buee@brooklyn.cuny.edu. Application materials should be submitted via the BUEE homepage before March 1.

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

Best,

Tony Wilson, BUEE PI

buee <buee@brooklyn.cuny.edu>

Tony Wilson <TWilson@brooklyn.cuny.edu>

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ESEB Conference TravelAndAidGrants

ESEB CONFERENCE TRAVEL AWARD

These stipends are for students and young scientists to attend the next EMPSEB meeting (https://www.empseb28.com/) from May 29 - Jun 3, 2023 in Scotland, UK, or the Evolution meeting (https://www.evolutionmeetings.org/) of ASN/SSB/SSE in Albuquerque, New Mexico, on June 21-25, 2023. The stipend will contribute to covering travel, living expenses, and early bird congress registration fees. The funds will be paid out as a reimbursement after the congress, based on specification of the expenses. Note that the registration fee for the Evolution meeting will be waived by the organisers and thus does not need to be included in the budget.

Please note that this Conference Travel Award is dis-

tinct from the Congress Attendance Aid Grant, which is designed to help with the additional costs of meeting attendance due to responsibilities for caring for dependents when attending the meetings and NOT for the costs of the applicant to attend the meeting.

DEADLINE: January 31st, 2023

ELIGIBILITY:

- Applicants must be ESEB members before the deadline (for becoming an ESEB member, please visit https://-eseb.org/society/eseb-membership/).

- Applications can be submitted by scientists at various stages of their professional career (e.g., Masters and PhD students, postdocs, and lecturers).

- Scientists working in a country with high GDP are not eligible (for the list of excluded countries see below).

- People who received an ESEB travel stipend in the last five years are not eligible.

- Applicants must apply to present either an oral communication or a poster to be eligible for the stipend. This will be verified before the reimbursement, but no proof that a poster or talk is accepted is necessary at the application stage.

PLEASE NOTE THAT THESE STIPENDS ARE GIVEN IN CONJUNCTION WITH ANALOGOUS STIPENDS OFFERED BY THE SOCIETY FOR THE STUDY OF EVOLUTION (separate call) TO SUPPORT PARTICIPATION AT EVOLUTION 2023, SO THERE IS NO NEED TO APPLY TO BOTH THE ESEB AND THE SSE AWARDS.

HOW TO APPLY:

Send your application by email to the ESEB Office (office@eseb.org).

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

- Name of the applicant;

- ESEB membership number;

- Budget, including sources of additional support;

- An explanation of how attendance to the meeting will support the attendant's professional goals;

- and a short CV.

Please submit the application as a single PDF-file.

A support letter from the applicant advisor/mentor/senior colleague is also required. Support letters should be sent to the same email address (office@eseb.org) by the applicant's mentor by the deadline.

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

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

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ESEB Congress Attendance Aid Grant

The grant aims to ensure equal opportunities at the EMPSEB 28 meeting in Scotland, UK. The grant aims to achieve this by increasing the attendance of underrepresented groups, primarily, but not solely, caregiving women (who due to higher costs of childcare are often prevented from attending), through positive discrimination. The grant provides stipends of financial aid for scientists to help with the additional costs borne privately due to responsibilities for dependents when attending one of the above mentioned meetings. The stipend will contribute to covering expenses for care of dependents, but also for travel.

Please note that this grant is distinct from the ESEB Conference Travel Award, which is designed to help young researchers based in low economy countries with the travel costs to attend the meeting and NOT meant for costs due to responsibilities for caring for dependents when attending EMPSEB.

DEADLINE: Feb 15, 2023

ELIGIBILITY

- ——— Applicants must be ESEB members (for becoming a member of ESEB please visit our membership page at https://eseb.org/society/membership/ .- ——— Applications can be submitted by scientists at any stages of their

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ESEB EqualOpportunitiesFund SpecialTopicNetworks

** ESEB EQUAL OPPORTUNITIES INITIATIVE FUND **

Annual open call for proposals for activities that increase awareness of the problem and possible solutions. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal how the activity will improve our knowledge and awareness of inequalities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general. More information about the ESEB Equal Opportunities (EO) Initiative is available at https://eseb.org/prizes-funding/equal-opportunities-initiative/equal-opportunities-initiative-fund/ . *ELIGIBILITY*

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

HOW TO APPLY

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

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

Deadline: 28 February 2023

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

Dr. Ute Friedrich| ESEB Office Manager European Society for Evolutionary Biology | www.eseb.org ——

ESEB SPECIAL TOPIC NETWORKS - CALL FOR PROPOSALS

Small symposia, workshops and courses in various formats can perform functions complementary to those of the ESEB Congresses, allowing more focused interactions within specialist areas, forging new links between previously separate areas or fostering interdisciplinary and innovative ideas that merge specialized fields. One-off events can be valuable but the returns for connected series of events can be even greater. Therefore, ESEB invites proposals for Special Topic Networks (STNs) that will support dynamic and flexible series of small meetings and/or other networking opportunities in focused and currently active research areas.

Each STN will be funded for up to 6 years (subject to review after 2 and 4 years of operation) with up to 10,000 Euros for each 2-year funding period. Eight STNs have been initiated since the start of the initiative (see https://-/eseb.org/prizes-funding/special-topic-networks/), and further STNs will be initiated every other year. The format of these STNs is up to their organisers and innovative ideas are encouraged. All fields of evolutionary biology are eligible. Applicants should provide a proposal with the following components: 1) a description of the research area to be targeted, showing why it is timely to address it in this way and outlining the expected benefits to the field from the STN (max. 1000 words), 2) a plan for the first two years of operation of the STN and an outline

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ESEB EUEA award CallClosingApr14

ESEB UNDER-REPRESENTED ECR ACHIEVEMENT AWARD

Two annual awards of 2,000 euro will highlight the achievements of under-represented early-career researchers (ECRs) who have faced difficult circumstances while conducting their work. The difficult circumstances are primarily, but not solely, disabilities, single parenting, and caring responsibilities that have created unequal opportunities.

DEADLINE: 14 April 2023

ELIGIBILITY -> The award is open to PhD students, postdoctoral scientists or non-tenure-track research fellows who do not hold a permanent academic position and have achieved their research while facing difficult circumstances. -> Applications may be submitted by the person benefiting from the grant, or by a colleague/supervisor when a letter is included from the nominee approving their nomination. -> The person submitting the application must be an ESEB member (to become a member of ESEB, please visit our membership page at https://eseb.org/society/eseb-membership/) -> Applicants who have previously received this award are not eligible. -> The award stipend (2000 euro) will be spent at the discretion of the nominee. Nominees will be required to write a short summary of their achievement to be highlighted on the ESEB Equal Opportunities website and ESEB newsletter.

APPLICATION PROCEDURE

Applications should be sent as a single PDF file to Ute Friedrich at the ESEB office, office@eseb.org. It should include

- A cover letter with the nominee's name, current status and institution, PhD start date, duration and reason for any career breaks, nominee's or nominator's ESEB membership number, and a signed statement on what the nominee has achieved and why you considered the nominee achieved it under difficult circumstances. The difficult circumstances are primarily, but not solely, disabilities, single parenting, and caring responsibilities. The letter should not exceed 2—pages.

- A short CV of the nominee (1-2—pages)

- Proof of the nominee's achievement: this can be for instance a PhD diploma, a publication, or an outreach initiative.

- A letter of support from the nominee's host institution or a colleague.

Applications will be evaluated by the Equal Opportunity Committee.

European Society for Evolutionary Biology (ESEB) | eseb.org ESEB Office | office@eseb.org

ESEB Office <office@eseb.org>

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ESEB HewittMobilityAward DeadlineJan20

Godfrey Hewitt Mobility (GHM) Award 2023 - Call for Applications

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from 1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB annually offers mobility grants for young scientists in his name.

Closing date: FRIDAY, 20 JANUARY 2023.

ELIGIBILITY

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

APPLICATION PROCEDURE

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

Applications will be considered by a committee chaired by Constantino Macias Garcia. The aim will be to announce decisions before the end of March 2023. The committee will consider the following key criteria:

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

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

Please endeavour to address these points in your application.

Best wishes, Ute Friedrich, ESEB Office Manager.

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

ESEB Office <office@eseb.org>

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FrontiersInBioinformatics

Hi,

Call for participation in Research topic "Artificial intelligence-mediated interpretation of human genetic variants in disease diagnostics and prognosis" under Genomic Analysis - Frontiers in Bioinformatics

We wanted to get in touch regarding participation in research topic :Artificial intelligence-mediated interpretation of human genetic variants in disease diagnostics and prognosis under Genomic Analysis - Frontiers in Bioinformatics

We would be honored for you to contribute to. We are seeking to publish a collection of high-level manuscripts from national/ International experts like you covering the many different aspects of this important topic. Research Articles, Breif Reports, and Reviews are welcome. If you are interested in contributing a paper to this Research Topic, please participate through the following link

https://www.frontiersin.org/research-topics/49237/-artificial-intelligence-mediated-interpretation-of-human-genetic-variants-in-disease-diagnostics-and Research Topic Title: Artificial Intelligence and Machine Learning Approaches for Diagnostic, Predictive, and Prognostic Cancer Biomarkers Topic Editor(s): Yusuf Khan, Abhinav Kaushik, Zeeshan Ahmed

Journal/Specialty:Frontiers in Bioinformatics /Genomic Analysis

Here are quick links to: - Author guidelines: https://www.frontiersin.org/about/author-guidelines - List of article types and publishing fees: https://-www.frontiersin.org/about/publishing-fees Kind Regards,

Dr.Yusuf Khan Topic Coordinator, Frontiers in Artificial Intelligence- section Medicine and Public Health On behalf of the Topic Editors.

Yusuf Khan <yusuf.zhc@gmail.com>

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InMemory BobWayne

Our friend and colleague Dr. Robert (Bob) K. Wayne lost his battle with pancreatic cancer on December 26, 2022. He was a Professor in the Department of Ecology and Evolutionary Biology at the University of California, Los Angeles, where he spent the majority of his career. As our community mourns his passing, we want to celebrate his life and his many contributions to science, biodiversity conservation, and the promotion of student success.

As part of our celebration of Bob and his work, the American Genetic Association is establishing the Robert K.

Wayne Conservation Scholarship and Research Fund to support graduate students whose research directly benefits a threatened species. The AGA will provide an initial endowment sufficient to support one $6000 scholarship, and welcomes donations from members of our community who wish to grow the impact of this Fund in Bob's honor.

Please visit https://www.theaga.org/donate for more information and to make a donation.

Best wishes, Beth Shapiro, AGA President and the AGA Council

Anjanette Baker <theaga@theaga.org>

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LinneSys SystematicsResearchFund

Dear all,

The joint fund of the Linnean Society of London (https://www.linnean.org/) and the Systematics Association (https://systass.org), the LinneSys: Systematics Research Fund provides grants annually in the value of up to ï¿½1,500 for small-scale research and education projects in the field of taxonomy and systematics on any organism group from microscopic to macroscopic past and present.

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

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

An applicant must be a current member of the Systematics Association or Linnean Society of London. More information on guidelines provided here: https://systass.org/grants-and-awards/linnesys/ Deadline: 23 February 2023

Any questions please email: LinneSys@systass.org

Dr Anne D. Jungblut

Grants and Awards Officer

Systematics Association

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

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Nicaragua CetaceanTrainingProgram

Dear EvolDir community,

Association ELI-S is a small non-profit organization based in France that was created in 2013. Our organization aims at promoting, protecting and conserving cetaceans in Central America. We are running the Cetacean Conservation Project of Nicaragua since 2016. This pioneer project aims to generate knowledge on cetacean presence, population size, distribution and habitat use patterns. The expected output is to generate: 1) scientific data on whales, dolphins and sea turtles in Nicaragua to assess distribution and movement patterns, behaviours and, 2) environmental awareness to the local communities in order to create a socio-economic relevance in conserving and protecting their natural environment and 3) responsible eco-tourism by participating to beach clean-up.

Association ELI-S is offering a training program on marine mammal research techniques both online and in the field according to your availability.

You can participate in our online training program in January and in our field training program between March and April (season 1) and August-September (season 2) 2023 in San Juan del Sur. Duration: typically 2 weeks (or more)

Team

- Joëlle De Weerdt, PhD Candidate Vrije Universiteit Brussel (VUB), Project director of Cetacean conservation of Nicaragua

- Leslie Blanchet, MSc, Research Assistant in Association ELI-S

WHAT WE OFFER:

- A unique experience in Central America to study cetaceans

- Online training covering following topics: Cetaceans Ecology and Biology, Research methods and Fieldwork (23rd to 27th of January)

A High- quality training program of two weeks including at least 4 field trips

- Experience research and conservation in the field from a researcher and local community perspective

- Valuable experience to pursue a marine research career

- Possibilities of entering research community and developing scientific and professional web

- Real field experience giving additional value to your CV

- Possibilities to learn a new language (French or Spanish)

This training is a unique opportunity to participate in a pioneer research project on cetacean conservation in Central America under the supervision of experienced marine biologists, which gives the opportunity for the participants to develop both professionally but also personally thanks to the unique experience to live within local communities.

Location: San Juan del Sur, South-West of Nicaragua

Project length: 1st of March to 15th of April and 1st of August to 30th of September (deadline: June 30th) with a minimum of 2 weeks commitment.

Age: minimum 21 years old

WHAT TO EXPECT: - Assist in boat-based surveys and data collection on cetaceans - Photo-identification of whale and dolphin species including matching and grading (computer based) - Data entry of collected field data - Participate to public outreach and events

Knowledge you need to participate:

- Enthusiastic, conscientious and proactive (!)

- Interest in marine wildlife and conservation

Be able to solve problem in unanticipated situations

Have an attention to detail and follow policies and procedures

- Being comfortable on a small boat and spend long hours on a boat in the sun

- Being able to work in a small team

- Be able to swim

- Spoken language: English (mandatory), French (not mandatory) or Spanish (optional)

Successful candidates will:

- Gain valuable and unique experience in cetacean survey techniques including behavioural studies, biopsy sampling procedures and acoustic data collection

- Work in a very dynamic environment

- Get insight in running a research project in developing countries

DATES AND FEES

15 February - 28 February

1st March - 15 March

15 March - 31 March

1st April - 15 April

1st August - 15 August

15 August - 31 August

1st September - 15 September

15 September - 30 September

(min. 2 weeks commitment)

500$ for two weeks

What is included :

- A membership to Association ELI-S for a year

- An online training on field methods and protocols of 10 hours (23rd to 27th of January)

- A full marine biologist training (photo-identification, acoustic, data collection, behaviour ...)

- Fieldwork including boat surveys

- Team support for travel logistics and local activities

What is not included:

- Accommodation (an extra of 300$ for 2 weeks is asked for an accommodation)

- Meals

- Travel to the study site (international flight and national transportation) but we'll help you to organise your trip if needed.

- Personal expenses: restaurants, bars, telephone, laundry, etc.

- Travel health insurance

- VISA fee (10$)

To apply: Please email your CV and cover letter outlining your experience and motivations. Send this to leslie.blanchet@eli-s.com with "Training program 2023" in the subject line. Interviews via Skype or Zoom.

Leslie Blanchet (MSc) Research Assistant in Association ELI-S

— / —

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

NMBU Norway GrantWriting

Dear All,

The Norwegian University of Life Sciences (NMBU) is inviting prospective candidates to the MSCA -PF-2023 call. The aim of the Master Class is to attract and help highly motivated researchers to successfully apply for an MSCA Postdoctoral Fellowship (1-3 years, expected salary before tax: 790K NOK/year + mobility allowance) with NMBU. The Master Class is also open for candidates applying for a Global Fellowship with NMBU as the return host institution. We will offer a complete training package for MSCA-PF applicants free of charge).

About the group: Dr. Marie Saitou, Section for Genome Biology, Faculty for Bioscience, NMBU

Our interest is in revealing the biological basis and evolutionary histories of various interesting species by using genomics, bioinformatics and biostatistics.

Keywords: Functional genomics, transcriptome, eQTL, polygenic score, genome- wide association study, population genetics, comparative genomics, natural selection, demographic history. (1) Genomic Diversity and Evolution We are interested in investigating the evolutionary history of species and populations such as adaptation and demographic history by comparing population-scale genomes. (2) Connecting Genome to Phenotype We are interested in investigating how the genetic variants contribute to phenotypic diversity in the view of evolution. We use functional genomics toolsets, such as RNA-sequencing and genome-wide association study to investigate this question.

Eligibility: - A doctoral degree in genomics or relevant fields that was defended no longer than 8 years prior to September 2023. - Any nationality/No age restrictions. - Have not resided or carried out his/her main activity in Norway for more than 12 months in the three years immediately before the call.

The application must contain: The completed Marie Skùodowska-Curie MASTERCLASS NMBU 2022 application form, including: - The name of your preferred supervisor - A research proposal (max 2 p.) - Motivation to choose NMBU as future Host Institution (max 1 p.) - CV and track-record the applicant (max 5 p., see template in the application form)

Please send the completed application to Dr. Per Ivar Hrving per.ivar.hovring@nmbu.no by March 24th 2023. The results will be sent to the applicants in early April. We are waiting for motivated applications.

Best,

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

Online CurationOfGeneticDiversity Jan17-19

Please advertise this educational opportunity for undergraduate and graduate students within your departments. It’s a great experience with the primary literature for motivated students. Interested faculty and researchers are welcome as well! Starts next week!

Do you have an interest in working with genetic biodiversity but don’t know how to start? Consider joining The Genomic Observatories Diversity Explorer (GEODE) team as a metadata curator! The Genomic Observatories Diversity Explorer (GEODE) project at Pennsylvania State University aims to visualize the world’s most foundational, yet underappreciated, layer of biodiversity: genetic diversity.

Join us for one or many virtual GEODE Curate-A-Thons < https://bdezray.github.io/Geode-Curate-A-Thon/ > in January 2023! The Curate-A-Thon is an opportunity to enhance the metadata associated with genetic sequence data to improve discoverability, interoperability, and reusability while simultaneously developing your own data curation skills. Interested participants do not need to attend the full Curate-A-Thon. Instead, consider joining us for as long as you can and leave when you need to; we just ask that you join on the hour or half-hour time marks. Previous experience with genetic data and metadata curation is not required. Participants will gain experience with extracting information from the primary scientific literature, with the help of our team of researchers and data librarians.

Members of the GEODE research team will be available, during the entire Curate-A-Thon, to answer questions and assist participants with any issues that arise. Participants will follow a detailed instruction guide < https://bdezray.github.io/Geode-Curate-A-Thon/ >, that includes brief video tutorials, on how to curate genetic and genomic sequence metadata, and will receive a $10.00 USD Amazon e-gift card, while supplies last.

Tuesday, January 17, 2023 2:00 - 5:00 PM EST Register at this link < https://psu.zoom.us/meeting/register/tJUkfuyhpj8pHdaCf1DGrLV18AXGCFE5saFR >

Wednesday, January 18, 2023 2:00 pm - 5:00 PM EST Register at this link < https://psu.zoom.us/meeting/register/tJIlfumhrDoqG90qkvQx0RH_YIWhFzGxNFPL >

Thursday, January 19, 2023 9:00 am - 12:00 PM EST Register at this link < https://psu.zoom.us/meeting/register/tJYlc-CorzkoGNGc9TWvfQ0sSDvRzhxmH7t >

If you are interested in participating but these dates and times do not work for you, please contact GEODE team members Andrea Pritt at alp5088@psu.edu and Briana Wham at bde125@psu.edu. We will be happy to coordinate another time that works for you!

Eric Crandall <eric.d.crandall@gmail.com>

Eric Crandall <eric.d.crandall@gmail.com>

SSE HuxleyAward CallForNominations CORRECTION

The Society for the Study of Evolution (SSE) Education Committee is pleased to announce the 2023 T. H. Huxley Award, named in honor of Darwin's very public supporter, which recognizes and promotes the development of high-quality evolution education resources. If you have an interesting project or educational activity to share, consider applying for this award. Information on previous awards is available here: http://bit.ly/2kP2pPM. Graduate students and postdoctoral fellows are encouraged to apply. This award provides funding for an SSE member to present evolution education resources at an education-focused conference or symposium, typically the National Association of Biology Teachers (http://nabt.org/) annual conference, or an education-focused session at another conference. This year's NABT conference will be held in Baltimore, Maryland from November 2-5, 2023.

The deadline for applying for the Huxley Award is March 31st. Apply here: https://forms.gle/JQsuGT13nY79uSJj8 . Questions? Contact Katie Grogan (kathleen.e.grogan@gmail.com).

Correction: The previous announcement included incorrect location and dates of the NABT conference.

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

SSE THHuxley Award CallForNominations

The Society for the Study of Evolution (SSE) Education Committee is pleased to announce the 2023 T. H. Huxley Award, named in honor of Darwin's very public supporter, which recognizes and promotes the development of high-quality evolution education resources. If you have an interesting project or educational activity to share, consider applying for this award. Information on previous awards is available here: http://bit.ly/2kP2pPM .Graduate students and postdoctoral fellows are encouraged to apply. This award provides funding for an SSE member to present evolution education resources at an education-focused conference or symposium, typically the National Association of Biology Teachers (http://nabt.org/) annual conference, or an education-focused session at another conference. This year's NABT conference will be held August 16-19, 2023, in Washington, D.C.

The deadline for applying for the Huxley award is March 31st. Apply here: https://forms.gle/JQsuGT13nY79uSJj8 . Questions? Contact Katie Grogan (kathleen.e.grogan [at] gmail.com). –

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

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UTexas ElPaso REU Evolution Summer2023

REU Opportunity Summer 2023: "Research Experience for Undergraduates in Chihuahuan Desert Biodiversity" - DEADLINE MARCH 10, 2023

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. Mentors involved with this program conduct research in diverse aspects of ecology and evolutionary biology of extreme environments. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

The program provides:

* High quality research experience in ecology and evolutionary biology in the field and/or lab * Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP and/or other Chihuahuan Desert field sites * One-on-one and group mentoring from active research faculty in multidisciplinary fields * Training in bioethics and other relevant professional skills

The program includes:

* $6000 stipend for 10 weeks

* Housing in shared apartments and field station

* Travel reimbursement of up to $600

For more information on the program, research projects or to apply please visit: www.utep.edu/couri/-programs/cdb-reu/ Enquiries: CDB-REU@utep.edu

"Moody, Michael L" <mlmoody@utep.edu>

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YaleU REU Sharks

The Labs of Elizabeth Sibert (Yale University/WHOI), George Lauder (Harvard University) and Gareth Fraser (University of Florida) are running a unique accessible REU program this summer at the intersection of biology, geology, and engineering with a focus on sharks. Please forward to any interested students/departments. Much more information is available on the webpage:https://-accessiblesharks.wordpress.com/and specific questions can be addressed toaccessiblesharksreu@gmail.com

Paid opportunity for Undergraduates with Disabilities to participate in interdisciplinary research on sharks this summer

Accessible Sharks is an NSF-Funded summer internship program that supports undergraduate students with disabilities to participate in interdisciplinary summer research on sharks. Students will have the opportunity to work on aspects of shark scale development, their fossil record, or shark skin-inspired engineering and design, at one of three institutions around the US (University of Florida, Yale University, or Harvard University). The program will run in summer of 2023 and summer of 2024, and support a total of 6 students, 3 per summer. It will consist of an 8-week research project, as well as professional development opportunities and specific disability in STEM activities and discussions.

Successful applicants will join a lab group for the summer, and be provided with a$5500 stipend, housing, travel support, as well as support and accommodations related to their individual disability. They will also participate in undergraduate summer research activities at their location, as well as interdisciplinary cross-institution meetings and discussions. Remote participation possible and will be considered on a case-by-case basis, although students will be supported and encouraged to participate in person where possible.

This REU program is open to all undergraduate students with disabilities (e.g., mobility, sensory, learning, psychological, medical, or other disability - please see FAQ section below for more information), who are majors in biology, geology, environmental science, engineering, or other related fields. Prior research experience is not required or expected. Students from historically excluded and non-traditional backgrounds are especially encouraged to apply, and preference will be given to highly motivated students who have not had access to

comparable research opportunities through their home institutions.

To learn more and apply, please visit

https://accessiblesharks.wordpress.com/ Gareth J. Fraser, Ph.D Assistant Professor - Evolutionary Developmental Biology|Department of Biology|University of Florida|Carr Hall, Room 512|882 Newell Drive|Gainesville, FL, 32611| Phone:(352) 273-4758| email: g.fraser@ufl.edu|Skype: garethjfraser| website: www.fraser-lab.net|https://biology.ufl.edu/gareth-fraser/ "Fraser,Gareth John" <g.fraser@ufl.edu>

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PostDocs

CharlesU Prague ConvergentGenomeAdaptation

***ERC funded postdoc in population and structural genomics of convergent plant adaptation

Group of Ecological Genomics (Filip Koláø) Department of Botany, Charles University, Prague, Czech Republic https://botany.natur.cuni.cz/ecolgen Deadline Feb 17

Duration: 2 years (with possibility for an extension)

We seek a highly motivated, independent early career researcher interested in leading a research program within the context of a high-competitive Starting ERC and Junior Star projects with a possibility to apply for further independent early-career projects. The project is broadly focused on genomic basis of convergent plant adaptation (for details see below). The successful candidate will join the interdisciplinary team of Ecological Genomics at Charles University in Prague, lead by Filip Koláø and will be integrated into a broad network of local and international collaborators.

Requirements

**keen interest in leading an independent research program within a collaborative research group **experience in handling large scale short- or long-read sequence data a strong background in structural, statistical, and/or population genomics **PhD in evolutionary biology, genetics, bioinformatics, or related fields (previous experience in leading an independent postdoctoral project is advantageous, but not required)

We offer

**competitive salary well-above local averages **work in a young, dynamic and international environment, located in an inspiring historical city centre **involvement in international collaboration including stays in collaborating labs

Optional - further possibilities for strengthening academic career

**taking part in teaching relevant courses **co-supervision of PhD student involved in the project and supervision of master project(s) in the Bioinformatics or Evolutionary Biology program **participating in fieldwork in Europe **opportunity to develop independent research follow-up project in evolutionary genomics or molecular genetics **application for additional self-funded projects in national (designated Junior Researcher projects within The Czech Science Foundation) and international funding schemes (e.g. Marie Curie, EMBO fellowship) is highly encouraged and supported

Project details

Evolution is driven by a combination of deterministic forces and stochasticity, whose relative importance, however, remains a matter of debate. Knowing how predictable is evolution can provide insights into predictive evolution of crops, pathogens or species under climate change.

This project will address genomic basis and ecological consequences of convergent genome evolution in natural environments. By leveraging fascinating natural diversity of European Brassicaceae plants which repeatedly adapted to exceptionally strong selective pressure, toxic serpentine soils, the project aims at uncovering general mechanisms determining which portion of the genome evolves in a predictable manner. The successful candidate will use long-read sequencing data of multiple plant species to assembly novel references and identify structural variation. By integrating these findings with available short-read population-level data, they will identify convergent adaptive gene candidates and use comparative genomic approaches to infer the drivers of genomic convergence across species. The project builds on our previous research in natural Arabidopsis populations (e.g. Koneèná et al. 2021 Nat. Comms doi:10.1038/s41467-021-25256-5, Bohutínská et al. 2021, PNAS doi:10.1073/pnas.2022713118.) but will extend well beyond this system in order to discern generality. Alongside the head-start with available data, the candidate is expected to be fully involved in the overall project design and will lead the analytical part of the project.

Please send your CV, contact details for two referees and a half-page motivation letter in a single pdf file to Filip Koláø (filip.kolar@natur.cuni.cz). Review of the applications will begin on February 17th 2023 and will continue until the position has been filled.

For more info on the project and application procedure see https://botany.natur.cuni.cz/ecolgen/node/60
– 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 Koláø <filip.kolar@natur.cuni.cz>

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Chile InstBiodiversity

The Institute of Biodiversity of Antarctic and Subantarctic Ecosystems (https://www.institutobase.cl/-en/) seeks to provide postdoctoral positions in Metagenomics and Niche Models or Species Distribution Models.

(1) For the postdoctoral position of Niche Models or Species Distribution Models (SDMs), a person is sought for biodiversity research in Antarctic and Subantarctic areas, with management of software in the field of Geographic Information Systems, preferably ArcGis. In addition, with medium-advanced handling of R Language, knowledge of modeling packages and script development.

https://drive.google.com/file/d/-1edX42BRh2G0pIyTV3TS0E-OpECXtRvhM/-view?usp=sharing (2) For the scientific postdoctoral position in Metagenomics, a professional is sought for studies of the biodiversity of microbial and benthic, Antarctic and Subantarctic communities, through the bioinformatic analysis of massive sequencing data (metabarcoding and metagenomics). Experience in metagenomics and metabarcoding data generation and analysis, skills in metagenomics and metabarcoding analysis, bioinformatics software, and database mining are required.

https://drive.google.com/file/d/-14xgMJd1NlpUr6O3DMtPwF0-WHS_zDlB2/-view?usp=sharing Applications will be open until February 28, 2023

Feel free to distribute this announcement widely.

Dr. Elie POULIN Laboratorio de Ecologï¿½a Molecular (LEM) Instituto Milenio Ecosistemas Antï¿½rticos y Subantï¿½rticos (BASE) Instituto de Ecologï¿½a y Biodiversidad (IEB) Departamento de Ciencias Ecolï¿½gicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425 CP 7800003, ï¿½uï¿½oa, Santiago, Chile

*https://www.institutobase.cl/ *http://-/www.antarcticgenomics.cl/ *https://-www.researchgate.net/profile/Elie_Poulin http://-www.ieb-chile.cl/ Phone: (56)-2-29787298 E-mail: epoulin@uchile.cl

Elie Albert Poulin <epoulin@uchile.cl>

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CNR-ISMAR Venice MarineConservationGenetics

A 3 years research position in marine conservation/molecular ecology is now OPEN !!! deadline for application 19/02/2023!!

In the frame of the newborn National Biodiversity Future Center, supported by the Italian National Recovery and Resilience Plan, we are looking for an enthusiastic candidate interested in working to develope integrated genetic, optical and AI methodologies to support biodiversity and conservation in the planning and adaptive monitoring phases of MSP.

Code 02 - 1 staff unit at CNR Institute of Marine Sciences (ISMAR) - Venice headquarters Research Activities: Scientific and technological research activities in marine ecology.

Experience Required: Marine ecology and marine conservation; Applied genetics tools and data analysis to estimate biodiversity and/or ecological connectivity; Single and multivariate statistical data analysis for biodiversity; Designing of experiments and monitoring strategies for conservation; Ecological modelling, opto-acoustic methodologies for biodiversity assessments https://www.gazzettaufficiale.it/-atto/concorsi/caricaDettaglioAtto/-originario?atto.dataPubblicazioneGazzetta=2023-01-20&atto.codiceRedazionale=22E17104 https:/-/selezionionline.cnr.it/jconon/call-detail?callId=-f6be5fb7-fd7f-4a1b-a761-a31682e67f26 at this last link you will find the complete information (Italian and English on how to apply

The link to the complete infos (in English)

https://selezionionline.cnr.it/jconon/rest/-content?nodeRef=ec9771d4-9b1b-4078-bcef-f6a53df64be9;1.0&guest=true I would be grateful if you could spread the news to potential interested candidates.

all the best, Lucia

Lucia Bongiorni, PhD CNR-ISMAR, National Research Council, Institute of Marine Sciences Arsenale - Tesa 104, Castello 2737/F, 30122, Venice, Italy Tel: +39 041 2407953 Sype: luciabongiorni

Sergio Stefanni <sstefanni@gmail.com>

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ing@mcmaster.ca)

Connecticut CAES MosquitoPopulationGenomics

POSTDOCTORAL SCIENTIST: Genetics of Insecticide Resistance in Culex pipiens mosquitoes Department of Entomology Center for Vector Biology & Zoonotic Diseases

The Department of Entomology and Center for Vector Biology & Zoonotic Diseases at the Connecticut Agricultural Experiment Station (New Haven Campus) are seeking applicants for a Postdoctoral Research Scientist position starting February 2023 to study the genetic basis of insecticide resistance in mosquitoes in the northeastern USA. The position is for two years with a negotiable start date, and the salary is $54,236.00/yr., including competitive medical and dental benefits.

Scope: The research project, funded by the Louis Magnarelli Postdoctoral Fellowship at CAES, will use genomic approaches and experimental evolution to identify the underlying genetics of insecticide resistance in Culex pipiens mosquitoes in the Northeast and establish the potential of these mosquito populations to develop and maintain resistance in the presence/absence of insecticides.

Required Qualifications: Candidates must have a Ph.D. in genomics, population genetics, molecular vector biology, evolutionary biology, or a related discipline. Excellent communication (verbal and written) and organizational skills, as well as a track record of research productivity and scholarly publications in peer-reviewed journals, are essential. Strong molecular biology training, experience with maintaining and manipulating arthropod vectors, working knowledge of high-throughput sequencing (e.g., Illumina) and large databases, as well as basic bioinformatic skills are required.

Additional Qualifications: Familiarity with association analysis (GWAS) is preferred. Willingness and ability to carry out field work and insecticide resistance bioassays are a must, as is the ability to work as part of a team of researchers. The applicant should have a valid US driver's license or the ability to obtain a driver's license within two months of employment. Applicants will be expected to supervise undergraduate and graduate students to fulfill the research objectives of this project.

To apply: Interested candidates should submit by email a single PDF document that includes: (1) a cover letter addressing the requirements above, (2) a CV or resume, and (3) the names and contact information for three references (e-mail and phone numbers) to: Dr. Andrea Gloria-Soria (andrea.gloria-soria@ct.gov). The review of applications will begin immediately and continue until a suitable candidate is identified.

More information about our work can be found at: https://andreagloriasoria.wordpress.com "Gloria-Soria, Andrea" <andrea.gloria-soria@yale.edu>

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Crete Two BiodiversityComputing

Dear Community,

There are two PostDoc positions with competitive salaries available in my new, second research group (https://www.biocomp.gr/) that I am currently setting up in Crete under the auspices of the EU ERA chair program. So if you want to conduct research where other people go on vacations, the new Biodiversity Computing Group is the place to be.

We are looking for computer scientists, Bioinformaticians, or "programming Biologists".

To apply please follow one of the two links below:

https://www.ics.forth.gr/jobs vacancy ID: ICS-1980

https://euraxess.ec.europa.eu/jobs/61879 Alexis

Alexandros (Alexis) Stamatakis

ERA Chair, Institute of Computer Science, Foundation for Research and Technology - Hellas Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology

www.biocomp.gr (Crete lab) www.exelixis-lab.org (Heidelberg lab)

Alexandros Stamatakis <alexandros.stamatakis@gmail.com>

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DortmundU EvolEpigenetics

Postdoc position in Evolutionary Genetics available

We seek an enthusiastic Post-doc interested in joining the EvoGen lab (https://tgossmann.github.io/, principal investigator Prof Toni Gossmann) at TU Dortmund University (https://www.tu-dortmund.de/). Our new lab focuses on experimental approaches and data analysis to identify imprints of selection in natural populations, making use of newly available biodiversity data produced through next and third generation sequencing approaches.

Project

What genomic regions are involved in adaptation? While this is a central problem in evolutionary ecology, little is known about the interplay of genetics and epigenetics underlying short-term and long-term adaptation in wild animals. The aim of the project is to address this fundamental knowledge gap by investigating the role of genomic and epigenomic responses in avian species across the species spectrum, using the great tit (*Parus major*) species complex as a model. This study will combine computational approaches (e.g. simulations, bioinformatics) as well as novel sequencing approaches and their data analysis+interpretation.

Requirements and position details

The applicant needs to hold a **PhD** in biology, bioinformatics, molecular biology or a related discipline at time of start date with a background and/or interest in at least one of the following subjects:

- evolution - third/next generation sequencing - climate change - genomics and biodiversity - disease biology

Anticipated start date is summer semester 2023 (**1.4.2023**), though the exact start date is negotiable. The position is open to National and International applicants (EU and worldwide) and funded for 30 months (TV-L E13, 100%).

Some exposure to statistics and programming is expected, though mastery of specialized tools is not required and there will be ample opportunity to continue to build and refine your skills through mentorship and collaboration in our lab. Wet-labï¿½ (e.g. DNA extraction from tissues) and/or field work experience is a plus.

How to apply

Interested applicants are encouraged to send the following materials:

- Cover letter discussing their interest in science and joining their lab - CV - Copies of undergraduate and (if applicable/possible) graduate transcripts - Contact details of two references

to **Prof. Toni Gossmann** (toni.gossmann@gmail.com) preferably as a **single PDF** including the identifier **Postdoc position Evogen** in the Email subject line.ï¿½ Review of applications will begin 23.1.2023, application will be accepted until the post is filled.

Full Ad: https://tgossmann.github.io/-files/Postdoc-AD1.pdf Toni Gossmann <toni.gossmann@googlemail.com>

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ETHZurich Two InfectiousDiseaseDynamics

Dear All

The Theoretical Biology Group at the Institute of Integrative Biology ETH Zurich is inviting applications for a postdoctoral position in infectious disease dynamics co-supervised by Professors Sebastian Bonhoeffer and Roland Regoes. The ideal starting date would be April 1, 2023.

Project background The joint group of Profs. Bonhoeffer and Regoes works on infectious disease dynamics using a broad range of mathematical, computational, and experimental approaches to study the population dynamics and evolution of infectious pathogens on both the within and between-host level.

The group uses a robotic liquid handling platform to study questions such as: - The evolution of resistance in response to antibiotic treatment under clinically relevant epidemiological settings and - The genomic fingerprints of population structure on evolving bacteriophages.

You would be able to participate in these ongoing projects as well as develop new projects that would utilise the existing infrastructure to study fundamental problems in infectious disease dynamics. There is a parallel search for a postdoc with a computational profile.

Job description In addition to participating in existing projects, you will be responsible for developing your own research agenda in the broader field of infectious disease dynamics in discussion with Profs. Bonhoeffer and Regoes. Furthermore, you will be able to conduct your research with a high level of scientific independence and will gain relevant experience to apply for independent group leader positions. In particular, you can co-supervise Master or PhD students and participate in teaching.

The full ad with details on how to apply can be found here: https://jobs.ethz.ch/job/view/-JOPG_ethz_cFnH1vVUIrGOtR06hZ ——

Dear All

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Project background The joint group of Profs. Bonhoeffer and Regoes works on infectious disease dynamics using a broad range of mathematical, computational, and experimental approaches to study the population dynamics and evolution of infectious pathogens on both the within and between-host level. The group has worked on a large variety of viral and bacterial pathogens of humans and animals and uses mostly E.coli, bacteriophages and plasmids to study epidemiological and evolutionary processes in the laboratory. Current focal areas of the group include the evolution and control of antibiotic resistance, the evolution and spread of plasmids, and viral diversification. There is a parallel search for a postdoc with an experimental profile.

Job description You will be responsible for developing your own research agenda in the broader field of infectious disease dynamics in discussion with Profs. Bonhoeffer and Regoes. Furthermore, you will be able to conduct your research with a high level of scientific independence and will gain relevant experience to apply for independent group leader positions. In particular, you can co-supervise Master or PhD students and participate in teaching.

The full ad with details on how to apply can be found here: https://jobs.ethz.ch/job/view/-JOPG_ethz_7PJ2CQ0RJzQvkVMh1K Roland R Regoes <roland.regoes@env.ethz.ch>

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FresnoChaffeeZoo LizardEvolutionEcolConservation

The Postdoctoral Scholar will assist PI Rory Telemeco with development and implementation of a fully funded grant program to re-wild federal and California endangered Blunt-nosed Leopard Lizards (Gambelia sila) to relict San Joaquin Desert habitat in the Panoche Hills in central California. In the process, this person will lead efforts to quantify natural selection for a suite of fitness-relevant traits and monitor space use, in part using an automated radio-telemetry system. This person will also assist with the management of field teams composed of Conservation Interns, that will typically be college students. This position will have both field and laboratory elements, and opportunities to interact with the public as part of conservation-education programs. Funding is secured for 3 years.

Our comprehensive compensation package includes 100% employer paid Medical/Dental/Vision insurance, Employee Assistance Program, 401k with employer match, 10 Paid Holidays, Paid Sick, and Paid Vacation time on an accrued basis. The pay range for this position is $64,480 - $77,000. Offers will be based on the successful candidate's experience.

To apply and view the full job description, go to https://www.paycomonline.net/v4/ats/web.php/-jobs/ViewJobDetails?job=3D38001&clientkey=-989E03768AF17AD5073630FBE5F820E7 .When applying, please provide a CV and cover letter describing your key qualifications. For additional information, please contact Rory Telemeco at RTelemeco@fresnochaffeezoo.org.

Rory Telemeco <RTelemeco@fresnochaffeezoo.org>

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FresnoChaffeeZoo LizardEvolution Updated

The Postdoctoral Scholar will assist PI Rory Telemeco with development and implementation of a fully funded

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To apply and view the full job description, go to https://www.paycomonline.net/v4/ats/web.php/-jobs/ViewJobDetails?job=38001&clientkey=-989E03768AF17AD5073630FBE5F820E7 .When applying, please provide a CV and cover letter describing your key qualifications. For additional information, please contact Rory Telemeco at RTelemeco@fresnochaffeezoo.org.

Rory Telemeco <RTelemeco@fresnochaffeezoo.org>

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GEOMAR Germany PopulationGenomicsAdaptation

Postdoctoral position in marine evolution and population genomics at GEOMAR Helmholtz Centre for Ocean Research Kiel.

Full job posting can be found here: https://www.geomar.de/en/karriere/job-single-en/-postdoctoral-position-in-marine-evolution-and-population-genomics-m-f-d For further information regarding the position and research unit please contact Reid Brennan (rbrennan@geomar.de).

We are seeking a postdoctoral researcher with expertise in population or quantitative genomics to join the research group of Marine Evolutionary Genomics, led by Prof. Dr. Reid Brennan. This position provides the opportunity to join a growing group focused on ecological and evolutionary genomics and rapid adaptation to global change. GEOMAR is located in Kiel, Germany on the Baltic Sea and is one of the internationally leading institutions in the field of marine sciences. Kiel is also an evolutionary hotspot in Germany with both GEOMAR and the University of Kiel hosting numerous research groups. Further, the Max-Planck-Institute for Evolutionary Biology is nearby in Plön and there is ample opportunity for formal and informal interactions with these institutions.

Job Description:

The group works primarily on marine zooplankton in order to understand mechanisms and potential of adaptation. The position is not tied to any specific project and there is flexibility in the research topic depending on an applicant's interests. There are numerous existing and soon-to-be generated genomic datasets that are ready for analysis. Potential projects include, but are not limited to: temporal genomics of copepod seasonal adaptation across a 15-year dataset; comparative genomics of copepods leveraging a newly generated nearly chromosome level genome for Acartia tonsa; genomics of adaptation across a 150-generation selection experiment.

We especially value working with colleagues who want to foster a positive, curious, and respectful research environment.

The start date is somewhat flexible, but will be no later than May 1, 2023. The position is for 12 months.

Required qualifications:

- A diploma/MSc and a PhD degree or equivalent qualification in Biology, Marine Biology, Genomics, or related subjects - Manuscripts published or in progress on topics related to evolution, population/quantitative genomics, or related subjects. - Bioinformatics expertise in at least one programming language (R, python, bash, etc.) and/or high-performance computing. - Experience with population, quantitative, or comparative genomics, or related. - Excellent knowledge of English writing and language

Desirable qualifications:

- Good statistical knowledge - Knowledge of marine biology, zooplankton, or copepods. - Experience with temporal datasets and/or detecting signals of selection in genomic data

The position is available for a funding period of 12 months. The salary depends on qualification and could be up to the class 13 TVöD-Bund of the German tariff

for public employees. This is a full-time position. The position can be split. The fixed-term contract shall comply with Section 2 Paragraph 1 of The Act of Academic Fixed-Term Contract (German WissZeitVG).

The working language of the research group is English.

GEOMAR Helmholtz Centre for Ocean Research Kiel seeks to increase the proportion of female scientists and explicitly encourages qualified female academics to apply. GEOMAR is an equal opportunity employer and encourages scientists with disabilities to apply. Qualified disabled applicants will receive preference in the application process.

To apply please provide a letter of motivation discussing your research interests, your interest in the position, and how your past experience has prepared you for this role. Also include a CV with contact information for two references. Please send your application for this post until January 20, 2023 under the following link:

https://bewerbung.geomar.de/P000028914/en As soon as the selection procedure has finished, all your application data will be removed according to data protection regulation.

For further information regarding the position and research unit please contact Prof. Dr. Reid Brennan (rbrennan@geomar.de).

We will answer your questions if you send us an e-mail to bewerbung(at)geomar.de. In doing so, please refer to the keyword “Marine Evolutionary Genomics”.

GEOMAR is a member of the Helmholtz Association and the German Marine Research Consortium (KDM). For further information please visit www.geomar.de or www.helmholtz.de.

GEOMAR is committed to an objective and non-discriminatory personnel selection. Our job advertisements address all people. We expressly renounce the submission of application photos.

Reid Brennan, Ph.D. (he/him)

— / —

Harvard MalariaGenomics

The Neafsey Lab at the Harvard T.H. Chan School of Public Health (HSPH) is seeking an early stage or senior Postdoctoral Fellow to contribute to our research program in the genomic epidemiology of malaria (https://sites.sph.harvard.edu/neafsey-lab/). Our lab generates and analyzes large genomic datasets from malaria parasites and vector mosquitoes to understand transmission patterns, demographic history, drug/vaccine resistance, immune evasion, and host/vector/pathogen interactions. In our wet lab, we generate new genetic assays for parasites and vectors, such as multiplexed Illumina amplicon sequencing panels, and we apply assays to cross sectional as well as longitudinal sample collections, driving a need for innovative approaches to data analysis. The successful candidate will work collaboratively with other group members to develop innovative wetlab and bioinformatic approaches for exploring Plasmodium malaria parasite genomic diversity. We have experimental capacity at HSPH, where we are part of a close-knit community of molecular parasitologists and vector biologists. Our lab also extends to the Broad Institute, where we belong to the Broad Institute Genomic Center for Infectious Disease and benefit from a community of expert microbial genomicists and computational biologists.

Ideal applicants will have a PhD in a relevant field, with strong background in population genetics, molecular epidemiology, statistical genetics, etc. Applicants will be expected to develop a research program that is original but fits within the general priorities of the group and funded grants, taking into account the relevant literature, own experience, and advice from other scientists. Currently funded or pending grants include: 1) projects to profile genetic diversity of infections in clinical trials of malaria monoclonal antibodies and vaccines to understand protective efficacy; 2) spatial genetic studies of parasites and vectors; 3) genome-wide screens of loci mediating parasite/vector interactions.

Basic Qualifications:

Candidates are required to have a Ph.D. in biology/parasitology/epidemiology or equivalent. Molecular biology laboratory skills (nucleic acid extraction, PCR, NGS library construction) are required.

Additional Qualifications:

Experience with next generation sequencing data analy-

sis and statistical fluency are strongly desired. Experience in at least one scripting language and familiarity with Unix/Linux computing environments are also desired. Candidates should demonstrate a track record of consistent publication, have strong organizational, written, and oral communication skills, and should be able to work both independently and as part of a team.

Contact Email:

Please contact Daniel Neafsey by email: neafsey@broadinstitute.org with CV, letter of interest, and contact info for at least three references.

Contact Information:

neafsey@broadinstitute.org

Equal Opportunity Employer:

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

neafsey@broadinstitute.org

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IGB-Berlin GlobalWarmingAdaptation

Project: “Can parasite evolution reinforce the effects of climate warming? (Paradapt)” (duration: 20 months)

It is commonly believed that global warming will result in a “sicker world”, with infectious diseases increasing in prevalence and virulence. However, these predictions are based on short-term experiments that have not recognized evolution that could lead to thermal adaptation. This project aims at answering the question whether parasites’ prevalence is altered under elevated temperatures and if long-term exposure to warming amplifies this effect. The successful candidate will analyse field samples (eDNA of water, Daphnia samples) that have been collected from a set of five artificially heated lakes that receive warm water from two power plants and have experienced an elevation in water temperature of ca. 3-4ÂoC for the last 60 yr. These will be compared with eDNA and Daphnia samples that have been collected from five nearby non-heated control lakes, to generate new predictions regarding the evolution of (plankton) parasites in a warmer world. There are also possibilities to run experiments, with host (zooplankton Daphnia) and parasite isolates from these different sets of lakes. The successful candidate will join the Disease Evolutionary Ecology < https://www.igb-berlin.de/en/wolinska > research group. The position is located at IGB in Berlin < https://www.igb-berlin.de/en >.

Your tasks

* Generate and analyse sequence data from eDNA and Daphnia field samples * Lead at least two high-quality publication in the project area * Collaborate with other team members, including supervising students and sharing skills

Your profile

* PhD in ecology, evolution, bioinformatics or related field * Demonstrated experience in molecular/genomic work * Ability to perform metabarcoding, metagenomic, or other bioinformatic analyses * Publication experience * Collaborative team-worker * Very good communication skills in English, including scientific writing

Our offer We offer an exciting position in an international and dynamic team of researchers, and an attractive scientific working environment including excellent equipment and technical support. We foster flat hierarchies and active participation and offer a variety of training opportunities < https://www.igb-berlin.de/en/-human-resources-development-hrs >. We actively support the reconciliation of work and family life < https://-www.igb-berlin.de/en/equal-opportunities >. Qualified women are particularly encouraged to apply. The IGB is committed to diversity < https://www.fv-berlin.de/-en/careers/diversity >. We welcome every application, regardless of gender and gender identity, origin, nationality, religion, belief, health and physical disabilities, age or sexual orientation. Disabled applicants with equal qualification and aptitude will be given preferential consideration.

This is a full-time position with 20 months duration and a tentative start date of 01.04.2023 (or shortly thereafter). Salary is paid according to the German salary scheme for the public sector for postdoctoral research (TVöD Bund E13). The working language at IGB is English.

Are you interested? We look forward to receiving your application (letter of motivation indicating research interests and experience, CV, certificates, contact information of two potential referees) by 15.02.2023. Please state the job reference number 03/2023 and apply exclusively via our recruitment platform at www.igb-berlin.de/-en/jobs. Enquiries can be directed to Prof. Justyna

Wolinska < https://www.igb-berlin.de/en/wolinska > at justyna.wolinska@igb-berlin.de.

Justyna Wolinska Group Leader (IGB) & Professor for Aquatic Evolutionary Ecology (Freie Universität Berlin)

justyna.wolinska@igb-berlin.de

+49 30 64181-686

Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB) Müggelseedamm 310 12587 Berlin

www.igb-berlin.de https://www.igb-berlin.de/en/-profile/justyna-wolinska http://www.igb-berlin.de/en/-wolinska Justyna Wolinska <justyna.wolinska@igb-berlin.de>

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IndianaU ReproductionEvolutionDisease

THE COMMON THEMES IN REPRODUCTIVE DIVERSITY PROGRAM (a multi-disciplinary program within The Indiana University College of Arts + Sciences) has 2 open positions for 2-year NIH traineeships to support broadly integrative training in the areas of sexual reproduction and development. Training will focus on behavior and physiology in humans and other animals and will address key questions in three related themes: (1) developmental contributions to reproductive behavior, (2) origins and expression of differences among the sexes; and (3) interactions between sex, health, and disease. Indiana University's excellent support for research and its globally recognized strengths in animal behavior, endocrinology, human sexual health, and evolution of development will ensure high quality training. PhD in biology, psychology, neuroscience, anthropology, gender studies, or a related field is required. Funding is from an NIH T32 training grant, "Common Themes in Reproductive Diversity." Applicants should make initial contact with one or more members of the training faculty (https://ctrd.indiana.edu/who-we-are/faculty/) who might serve as primary mentors, to develop possible research/training projects. Additional information about applying is available on the CTRD website (https://ctrd.indiana.edu/how-to-apply/. Positions begin as early as June 2023. Review of applications will begin as soon as *1 February 2023* or shortly thereafter in early to mid Feb. Consideration of applications will continue until positions are filled. Applicants from groups underrepresented in science are encouraged. The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars. Indiana University is an Equal Employment and Affirmative Action Employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation or identity, national origin, disability status or veteran status.

Kimberly Rosvall, Ph.D. (she/her) Associate Professor, Indiana University Biology Building A318, 1001 E. 3rd Street. Bloomington, IN 47401 https://rosvall.lab.indiana.edu/ Kimberly Rosvall <krosvall@indiana.edu>

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Lyon EvolutionMetabolicNetworks

A postdoctoral position is available at the LBBE in Lyon to work with Etienne Rajon and Sabine Peres on the joint evolution of enzyme kinetic features and the structure of metabolic networks. The postdoc is currently funded until the end of 2024 and may start ASAP.

Detailed information can be found here: https:/-/lbbe-web.univ-lyon1.fr/sites/default/files/media/-downloads/postdoclyonrajon.pdf Please contact Etienne Rajon (etienne.rajon@univ-lyon1.fr) for details; applicants should send a CV, short description of research interests and ideas about the project, and contacts for two referees.

Etienne Rajon

RAJON ETIENNE <Etienne.Rajon@univ-lyon1.fr>

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McMasterU InfectiousDiseases

The McMaster #theobio group (https://mac-theobio.github.io/) is looking for one or two postdoctoral researchers to analyze and model infectious disease data. The successful candidate will be based at McMaster University, in the group of Dr. Jonathan Dushoff (Department of Biology). The postdoc will join a diverse team and work to analyze data about rabies spread in endemic areas of Asia and Africa, to help pursue the goal of ending canine rabies as a public-health threat. The position is for one year, and can be renewed for a second.

The successful candidate will have strong quantitative, computational and communication skills. Applicants should have experience with dynamical modeling of ecological or infectious disease systems and parameter estimation for statistical models (Bayesian or frequentist).

Review of applications will begin on 1 Feb 2023, and continue until the position is filled. To apply, please e-mail Jonathan Dushoff (dushoff@mcmaster.ca) with a curriculum vitae (CV), a one-page statement of how your research interests and experience relate to this position, and contact information for 3 references.

Please indicate when you are available to start. The target date is the second half of 2023.

McMaster is located in Hamilton, Ontario, less than an hour from both Niagara Falls and from Toronto (and convenient to the latter by public transportation). The campus is large, green and conveniently located.

Jonathan Dushoff (https://tinyurl.com/jd-pronouns) McMaster University Department of Biology https://-mac-theobio.github.io/ https://twitter.com/jd_mathbio http://jd-mathbio.blogspot.com/ "Dushoff, Jonathan" <dushoff@mcmaster.ca>

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MfN Berlin AntEvolution

Postdoctoral Research Fellow in Ant Evolution Museum fuer Naturkunde Berlin

POSITION SUMMARY: A two-year Postdoctoral Research Fellowship is available within the collaborative, NSF-funded Ants of the World project (http://-www.aotwp.org/), which focuses on investigating global ant evolution using large-scale phylogenomic data. We are looking for an individual who will creatively address questions in ant evolution using large phylogenies (i.e. subfamily and family level) and phylogenetic comparative methods. Potential areas of focus are niche evolution and phenomics, but the postdoctoral researcher will have considerable freedom to develop and pursue their own research questions within the larger scope of the project. The position will be based at the Museum fuer Naturkunde, Berlin, Germany, but collaborate with project PIs at California Academy of Sciences, U of Utah, and UC Davis in the US. Numerous opportunities exist to interact with postdocs, students and staff in the Blaimer lab, the Center for Integrative Biodiversity Discovery and the larger scientific community at the Museum fuer Naturkunde.

ESSENTIAL DUTIES and RESPONSIBILITIES: - Independently design and lead data analyses on mutually agreed upon topics in ant evolution. - Maintain up-to-date documentation of data collected and analyses. - Preparation of manuscripts for leading international journals and presentation of results at international and national conferences. - Mentoring and supervision of students and volunteers on project- related tasks as directed by PI(s). - Presentation of regular progress reports during monthly collaborator meetings.

EDUCATION and EXPERIENCE: Qualified applicants must have successfully obtained their PhD degree in evolutionary biology, phylogenetics, ecology or related fields. The position requires excellent verbal and written communication skills (English) and a strong background and publication record. Good organizational skills are essential to manage large-scale data sets. Proficiency with unix and R is required; experience with other programming languages or machine learning is an advantage. A background in ants is desirable, but not necessary.

APPLICATION INSTRUCTIONS: Please apply by sending a cover letter highlighting motivation to ap-

ply, as well as skills and expertise; detailed CV including a list of publications and other achievements; and names and contact details of three referees to bonnie.blaimer@mfn.berlin. Apply by February 20, 2023 to receive full consideration (position will remain open until filled).

TERMS OF POSITION: The successful candidate will be offered a position for 12 months initially, with the potential for renewal for up to 24 months. Start date is flexible, but no later than October 1, 2023.

"Blaimer, Bonnie" <Bonnie.Blaimer@mfn.berlin>

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Montpellier TheoreticalPopulationGenetics

Postdoctoral Position

Theoretical Population Genetics and Eco-Evolutionary Modeling for a Climate Change Project

Extended Deadline: January 21, 2023 CEFE Montpellier, France

Luis Miguel-Chevin and Carol Eunmi Lee are hiring a Postdoctoral Researcher for 24 months to model eco-evolutionary dynamics of evolutionary rescue in response to rapid climate change, as part of a French ANR grant ("Make Our Planet Great Again," MOPGA program).

Context: This project aims to understand the potential for evolutionary adaptation and population persistence in the face of climate-induced salinity decline and temperature rise, focusing on the copepod Eurytemora affinis, a dominant component of marine zooplankton. Salinity is rapidly declining in many high latitude coastal regions, including the Baltic Sea, due to increases in ice melt and precipitation, threatening the sustainability of fisheries that rely on copepods as their main food source. To elucidate mechanisms of salinity and temperature adaptation and their links with demography under changing salinity, RapidEvol applies a unique integration of physiological analyses, genome-wide association studies, selection experiments, and theoretical modeling.

Main mission: The postdoc for this particular position will carry out the theoretical part of the project. The objective is to build a model that integrates life history traits (e.g., absolute fitness at different salinities) to determine how selection on beneficial alleles can lead to demographic rescue of the population. In particular, the model will include specific information on the genes that exhibit signatures of parallel adaptation in this system, consisting of ion transporters responsible for ion uptake. Selection and epistasis among these major genes will be key elements of the model, together with putative background polygenic variation for fitness not attributable to these major genes. All these elements will be calibrated with results from laboratory selection experiments (in response to salinity and temperature) and GWAS studies performed in the Lee Lab.

Activities: The postdoc will actively participate in model design, in collaboration with the supervisors. The models will be informed by the experimental results in the system. We will formulate and analyze several model versions along the trade-off between generality and realism. In simpler versions of the model, we will aim for analytical results that will broaden our general understanding of eco-evolutionary dynamics in this context. In more explicit versions of the model that allow for more realistic genetics and ecology, we will rely on individual-based simulations, which we will interpret as much as possible in light of analytical findings from simpler contexts.

Competencies & qualifications: The successful candidate will hold a PhD in evolutionary biology, bioinformatics, ecology, or related fields. Experience with individual-based simulations (or other computer-intensive approaches) is required, and solid mathematical training is an important criterion. We will preferentially select candidates with a background in theoretical population genetics and/or eco-evolutionary dynamics. Excellent interpersonal skills are also required for this collaborative project.

Work conditions: The postdoc will be based at the CEFE, France's largest ecology and evolution institute, with regular visits to the marine institute MARBEC, both located in Montpellier (France). Montpellier is a worldwide hotspot for ecology and evolution, with a notably large community of evolutionary geneticists and theoreticians. Within the CEFE, the postdoc will be part of the Evolutionary Genetics and Ecology team, which includes 12 permanent researchers with their groups, covering a wide variety of topics. The modeling work will be carried out in close collaboration with Luis-Miguel Chevin, CNRS researcher director at CEFE, with regular exchanges with Carol Eunmi Lee (the main PI of the grant), and other members of this project. Wages will follow rules from the University of Montpellier, and will depend notably on experience. French salaries include full health and social benefits.

Application process: Applicants should send a single PDF file including a cover letter (maximum 2 pages), a CV with a list of publications, and the contacts for 3 references, to Luis-Miguel CHEVIN (luis-miguel.chevin@cefe.cnrs.fr) and Carol E. Lee (carollee@wisc.edu), before January 21, 2023.

More information of the host groups can be found at:

https://www.cefe.cnrs.fr/fr/recherche/ee/gee/800-c/-474-luis-miguel-chevin https://lmchevin.weebly.com/ https://carollee.labs.wisc.edu/Lee.html Carol Eunmi LEE, Ph.D. Professor

Department of Integrative Biology 430 Lincoln Drive, Birge Hall

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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

NatlParkService TreeAdaptation

Postdoctoral Researcher in Conservation and evolutionary Genomics

We invite applications for a postdoctoral researcher to work on a collaborative project funded by the National Park Service, BLM-Montana and Northern Arizona University.

This project brings together existing and new genomic resources to build a powerful platform for the study of genomic diversity and potential for adaptation to climate change and resistance to white pine blister rust in natural populations of whitebark pine. Whitebark pine (Pinus albicaulis) is a five-needle pine species severely affected by disease and pests, as well as drought and fires. This research project aims to estimate genome-wide levels of diversity that will inform conservation and restoration activities. The postdoctoral researcher will be based at Dr. De La Torre's Forest Genomics lab at Northern Arizona University (NAU), with the potential to visit several National Parks in western North America. This position can be fully in-person or hybrid, includes health benefits and annual salary of $54,779.

Job description:

* Analyze and interpret molecular data using bioinformatic tools * Summarize research results for distribution/communication to the scientific community through peer-review publications in high- impact factor journals and conference presentations. * Train undergraduate students in molecular techniques to extract DNA/RNA and preparation of libraries for sequencing.

Minimum Qualifications:

* PhD degree in Biology, Genetics, Forestry, or related field of study. * Proficiency in R (Perl or Python is a desirable but not mandatory) * Experience with large datasets and high-performance computing * Molecular lab experience * Ability to travel for sample collections or attendance to conferences

How to apply:

Look for position 606828 in "Current Openings" at the link below https://in.nau.edu/human-resources/current-job-openings/ Employment - Careers at NAU | Human Resources < https://in.nau.edu/human-resources/-current-job-openings/ > in.nau.edu

Northern Arizona University is devoted to student success. We - faculty, staff, and administrators - work together to support each other's diverse strengths and ...

Deadline for applications is February 8th, 2023.

Start date: as soon as possible (flexible).

For more information, please contact:

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

Amanda De La Torre, PhD

(she/her/hers)

Assistant Professor of Forest Genomics

Director, Forest Genomics Lab < https://-treegenomicslab.com >

School of Forestry

Northern Arizona University

Flagstaff AZ86011, Arizona, US

twitter @forest_genomics < https://twitter.com/-forest_genomics >

Instagram @nau_fgl < https://www.instagram.com/-nau_fgl/ >

Amanda De La Torre <Amanda.de-la-Torre@nau.edu>

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NatlScienceCenter Poland HoneyBeeEvolution

POSTDOCTORAL POSITION within the project "Ferment in the family: alcohol hormesis in workers of the honeybee Apis mellifera" funded by the National Science Centre, Poland.

We are looking for one early-career PhD-level scientist to join the Integrative Ecology Team at the Institute of Systematics and Evolution of Animals of the Polish Academy of Sciences in Kraków, Poland. The postdoctoral position of adjunct is available for two years from the earliest possible date. Salary is fixed (gross 120000 PLN / year).

Candidate qualifications: 1) A PhD in biology or a related field; 2) Background in work with the honeybee; 3) Proven track record in peer-reviewed scientific publications; 4) Experience in performing statistics in the R environment; 5) Excellent written and oral communication in English.

The deadline for applications is February 18, 2023.

For details on the application process and more information please read the full announcement here: https://b5dece49-bac9-48f3-bd73-2f5b95db34be.usrfiles.com/ugd/b5dece_6f6beb08a4874c1797300c81f3115af3.pdf
All inquiries should be sent to Dr Krzysztof Miler: miler@isez.pan.krakow.pl

https://iecoteam.com "miler@isez.pan.krakow.pl" <miler@isez.pan.krakow.pl>

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NewYorkCity HumanPopulationGenetics

The Raj Laboratory at the Albert Einstein College of Medicine in New York city is recruiting several motivated postdoctoral fellows with interest and expertise in any of the following areas: (1) theoretical and empirical population and evolutionary genetics (2) genome-wide association studies and polygenic risk scores in populations of diverse (admixed) ancestries, in large-scale datasets (3) Gene-environment interactions (4) Cancer and public health genetics (5) Bioinformatics / Machine learning.

Research focus: Our lab investigates the contribution of common and rare genetic variation on phenotypic variation in diverse global populations. We study how genetics and gene-environment interactions as well as niche construction shape individual and population differences in disease risk and outcome. We use population, quantitative, evolutionary and functional genetics approaches to answer broad questions in this area, with an interest in common complex diseases as well as cancer. We also have a wet lab to study the functional consequences of genetic variation. We have several collaborative projects that use large-scale genetic data, such as the UK Biobank, TOPMED, All-of-Us and the HCHS/Study of Latinos, as well as to study the functional impact of genetic variation. We are particularly interested in research questions that serve the highly diverse community of our urban catchment area, the Bronx, NY, the most diverse county in the United States.

Lab website: For more details on our lab and research please visit www.srirajlab.com or https://einsteinmed.edu/faculty/16979/srilakshmi-raj/ . Application Requirements:

1. Ph.D. or M.D. or equivalent degree, and publications record from training.

1. Prior research experience in theoretical and experimental population genetics and bioinformatics particularly, quantitative and computational skills, and experience with large-scale genetic and health datasets (e.g. Biobanks). Experience with advanced population genetics is strongly preferred.

1. An interest in understanding the genetic basis of population health disparities is strongly preferred, including genetic epidemiology.

To apply: Please email your CV and a short cover letter summarizing your experience, along with the contact information of two references to: srilakshmi.raj@einstenmed.edu, addressed to Srilakshmi Raj Ph.D., Assistant Professor of Genetics, Department of Genetics, Albert Einstein College of Medicine, New York, NY

Research environment: The Albert Einstein College of Medicine (https://www.einsteinmed.edu) provides a highly engaging, interactive and productive academic environment for research scientists and scientists in training. Prospective members will enjoy joint weekly lab

meetings within the Department of Genetics, and will engage in work-in-progress seminars, journal clubs, trainee events, workshops and other professional and social events within the Department of Genetics, the Einstein Cancer center and throughout the school. The Price Center for Genetic and Translational Medicine, where our lab is situated, is a modern research building in the heart of the campus with state-of-the-art research facilities and amenities.

Lab Location: The Einstein College of Medicine is located in a residential area in the northeast corner of New York City with an easy commute to Manhattan and the suburbs of Westchester County. We offer competitive salary and benefit packages with optional postdoctoral housing on campus.

The Scientific Community: Among the top tier of the nation's medical schools to receive NIH funding, Albert Einstein College of Medicine offers a highly interactive and stimulating academic environment for scientists in training. Additionally, candidate's research will benefit from the highly interactive environment within the Gottesman Institute for Stem Cell and Regenerative Medicine, the Department of Genetics, Developmental and Molecular Biology, the Cancer Center and throughout the college. We are located in a pleasant residential area in the northeast corner of New York City with an easy commute to Manhattan and the suburbs of Westchester County. We offer competitive salary and benefit packages with optional postdoctoral housing on campus.

Srilakshmi Raj <srilakshmi.raj@einsteinmed.edu>

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NorthwesternPolytechnicalU EvolutionaryGenomics

Postdoctoral Positions available in Evolutionary and Population Genomics

About the lab:

We are a newly established lab at the School of Ecology and Environment, Northwestern Polytechnical University, which is located in China's most historical city (Xi'an). A key focus of the lab is to use a combined research strategy of comparative genomics and transcriptomics, statistics, and molecular experiment techniques, to study the evolutionary patterns of novel genetic elements and the genetic basis of key phenotypic traits in several animal organisms. A detailed description of the lab PI can be found: https://teacher.nwpu.edu.cn/en/-wyzhang . About the position:

We seek 1-2 Postdoctoral Researchers to work on comparative genomics projects to probe the evolution patterns and mechanisms of novel genetic elements. The lab has generated enormous genomic and transcriptomic datasets for several animal systems, and more are underway, ensuring a quick and efficient start. The Postdoctoral Researchers are also encouraged to involve in different evolutionary and population genomics projects and to develop their own research schemes if they like.

Duration:

The initial appointment is for two years, with the possibility for renewal of another two years based on performance.

Qualifications:

Applicants must hold a PhD degree (or will have completed a PhD before the position start) in bioinformatics, computational biology, genomics, evolutionary biology, population genetics, or a related discipline. Applicants are expected to show a demonstrated record of research achievement via peer-reviewed publications. Applicants must have strong computational skills, with proficiency in at least one scripted programming language, e.g., Python, Perl, R, and shell scripting. Experience with computing cluster environments and comparative and population genomics will be a plus.

Start Date: Flexible in 2023.

Salary: A highly competitive salary plus annual leave and medical benefits will be offered.

How to apply: Please send a CV (with contact information for two or three references), a motivation letter describing research experience and plans, and a list of publication records to Wenyu Zhang (wyzhang@nwpu.edu.cn).

Application screening will begin immediately and continues until the positions are filled.

Best, Wenyu

wyzhang@nwpu.edu.cn

"wyzhang@nwpu.edu.cn" <wyzhang@nwpu.edu.cn>

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NovaSoutheasternU SharkConservation

Position: Post-doctoral Research Associate or Assistant Research Scientist in marine conservation genomics

Employer: Save Our Seas Foundation Shark Research Center and Guy Harvey Research Institute, Nova Southeastern University, Florida

Appointment: Full-time; The position is for 24 months, subject to satisfactory work performance review after one year. The position can start around March 1, 2023 (start date is negotiable). The position may be extendable after 2 years, pending satisfactory work performance.

Description: We seek a full time, post-doctoral researcher, or Assistant Research Scientist (a higher job classification), with interests and demonstrated skills in evolutionary biology related to the areas of population genomics and/or environmental genomics and/or comparative genomics. The candidate will be part of an interdisciplinary team that is focused on working on conservation science of elasmobranchs. The successful candidate will have opportunities to assist with training and guidance of graduate students in the Save Our Seas Foundation Shark Research Center (https://-saveourseas.com/sosf-shark-research-center/), and Guy Harvey Research Institute (https://ghriresearch.org/).

Depending on experience, the successful candidate may also have opportunities to participate in field work. This position will be supervised by Dr. Mahmood Shivji and Dr. Andrea Bernard.

Qualifications: - PhD in genetics/genomics - Demonstrable experience, including peer-reviewed publications, in the above listed areas. - Excellent command of the English language (written and verbal). - Strong quantitative analytical skills as related to the listed fields.

To apply: Please address any inquiries to Dr. Mahmood Shivji (mahmood@nova.edu). Please send a single file PDF by email to Dr. Mahmood Shivji, containing: 1. Cover letter describing experience and expertise relevant to qualifications, as well as short- and long-term career goals 2. CV/Resume 3. Examples of peer-reviewed publications 4. List of three professional references and contact information

Applications received by February 15, 2023, will receive priority consideration. However, the position will remain open until filled.

Mahmood Shivji, Ph.D. Professor, Department of Biological Sciences Director, Guy Harvey Research Institute Director, Save Our Seas Foundation Shark Research Center Halmos College of Arts & Sciences and Guy Harvey Oceanographic Research Center

Mahmood Shivji <mahmood@nova.edu>

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OIST Japan InsectGutMicrobeEvolutionGenomics

Postdoctoral position on the evolution of termites and their gut microbes in the Evolutionary Genomics Unit (Bourguignon) at OIST

Link: https://www.oist.jp/careers/postdoctoral-scholar-evolutionary-genomics-unit-bourguignon-unit The position We seek a highly motivated postdoctoral researcher to join the Evolutionary Genomics Unit at OIST. We use next-generation sequencing technologies to study the evolution of termites, non-termite cockroaches, and their associated microbes. In the future, we would like to focus more extensively on the evolution of the symbiotic system composed of termites and their gut microbes. Termites have been feeding on the lignocellulose present in the wood for ~150 million years. They are able to feed on wood thanks to their association with diverse communities of gut microbes that synthesize a wide array of enzymes. We aim to determine how these gut microbial communities evolved and what are the functions of the principal gut bacterial lineages. The successful candidate will study the gut microbiome of many termite species from various angles and using datasets generated with a variety of methods, including PacBio HiFi long reads. A large amount of data has already been generated and is readily available for this project. In addition, the successful candidate will be encouraged to actively collaborate on other projects developed in the Unit (see https://groups.oist.jp/egu), such as the evolution of termite genomes inferred from 50 newly sequenced high-quality genomes.

Responsibilities The successful candidate will take the lead role in the project. We expect Postdoctoral Researchers to collaborate with the PI and other unit members and to help supervise junior staff, Ph.D. students,

rotation students, and interns.

Qualifications <required> - Ph.D. degree in evolution, genomics, bioinformatics, or relevant fields - Proficiency in spoken and written English - Good bioinformatic knowledge and experience with analyzing high- throughput sequencing datasets

<preferred> - Japanese communication skills - Prior knowledge about insects and gut microbes

Starting Date As early as possible

Employment Term Full-time, fixed term appointment for 1 year/2 years. Contract initially with 3-month probationary period (inclusive). This contract may be renewed to up to three years.

Compensation and Benefits In accordance with the OIST Employee Compensation Regulations

Benefits:

- Relocation, housing, and commuting allowances - Annual paid leave and summer holidays - Health insurance (Private School Mutual Aid) - Welfare pension insurance (kousei-nenkin) - Worker's accident compensation insurance (roudousha-saigai-hoshou- hoken)

Submission Documents A single pdf including: - Cover letter summarizing your research experience and interest in the position (1-2 pages) - Curriculum vitae - Names and contact information of 3~5 referees, at least one of which should be a previous employer or Ph.D. adviser

How to apply: Apply by emailing your Submission Documents to: thomas.bourguignon@oist.jp

Declaration - OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty, students and staff. The University strongly encourages applications from underrepresented groups. - Information provided by applicants or references will be kept confidential, documents will not be returned. All applicants will be notified regarding the status of their applications. - Please view OIST policy for rules on external professional activities - Further details about the University can be viewed on the OIST website www.oist.jp . Thomas.Bourguignon@oist.jp

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Oslo VenomEvolvability

Postdoctoral Research Fellow on evolutionary quantitative genetics of animal venoms

We are searching for a Postdoctoral Research Fellow to run a quantitative genetics experiment studying the evolvability of venom. The fellowship will be for a period of two years and is affiliated with the Centre for Ecological and Evolutionary Synthesis at the University of Oslo Department of Biosciences.

The person will be working in the Undheim group, where we are interested in questions in evolutionary biology that relate to how evolutionary innovations and novelties emerge and how they interact across levels of biological complexity.

A major focus of the group is to gain an understanding of the molecular underpinnings of evolvability using the venoms from lacewings (order Neuroptera) as models. The person will be working on the project "Lacewing Venom: Linking molecular and phenotypic evolution", which aims to provide an understanding of the micro- and macroevolution of venom as a complex character and is funded by the Norwegian Research Council. They will also be working closely with persons studying the molecular underpinnings of evolvability in the same system as a part of a concurrent project that is funded by the European Research Council.

The person will primarily be involved in studying micro-evolutionary properties of venom in collaboration with Prof. Thomas Hansen (CEES, UiO) and Prof. Christophe Pélabon (NTNU). Evolvability and evolution of lacewing venom will be estimated from molecular data, insect toxicity, and morphological measurements using evolutionary quantitative genetics methods. These measurements will be made primarily from already collected samples, but the person will have the opportunity to contribute to field-collection and breeding of lacewings as well as be involved in other aspects of studying venom evolvability. The project will also involve collaborations with other research groups both nationally and internationally (e.g., Florida State University).

We offer - Salary NOK 554 400 - 626 300 per annum depending on qualifications in position as Postdoctoral Research Fellowship (position code 1352) - Attractive welfare benefits and a generous pension agreement - Professionally stimulating working environment - Vi-

brant international academic environment - Postdoctoral development programmes - Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities

Application deadline is 10th of January 2023, and preferred starting date is as soon as possible.

For more information and instructions on how to apply, visit: https://www.jobbnorge.no/en/available-jobs/job/237019/postdoctoral-research-fellow-on-evolutionary-quantitative-genetics-of-animal-venoms . For any other questions, please email

Eivind Undheim: e.a.b.undheim@ibv.uio.no

Eivind Andreas Baste Undheim <e.a.b.undheim@ibv.uio.no>

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Parkville Australia SnailSystematics

Parasitology/Malacology postdoctoral position

https://jobs.unimelb.edu.au/en/job/911258/arc-research-fellow-parasitology Job no: 0057817 Location: Parkville Role type: Full time; Fixed-term for 2 years Faculty: Faculty of Science Department/School: Melbourne Veterinary School Salary: Level A - $77,171 - $104,717 p.a. plus 17% super

About the Role The successful applicant will work on an Australian Research Council (ARC)-funded international collaborative research project (AU-UK) to undertake field and laboratory work that will result in the taxonomic revision of aquatic snails and their parasites, define the complete genomes of key representative snail genotypes and use transcriptomics to elucidate the molecular interactions between a snail host and a parasite. Expected outcomes from this project are the creation of novel molecular resources for important snail species and to verify their roles as key vectors of flatworm parasites. The candidate will be supervised by Drs Neil Young and Anson Koehler, and work with Dr Bonnie Webster (Natural History Museum, London) and Professor Emeritus Winston Ponder (Australian Museum, Sydney) and members of the Parasitology Group within the Faculty of Science.

Requirements: Applicants must have completed a PhD thesis that aligns with one or more of the research aims. About You To be successful in this role, skills in parasitology, malacology, genomics, transcriptomics, bioinformatics, statistical analyses and/or aquatic invertebrate animal husbandry would be an advantage. The incumbent will demonstrated excellence in research through high-quality publications, and excellent communication skills.

About the University The University of Melbourne is consistently ranked amongst the leading universities in the world. We are proud of our people, our commitment to research and teaching excellence, and our global engagement. https://jobs.unimelb.edu.au/-en/job/911258/arc-research-fellow-parasitology anson.koehler@unimelb.edu.au

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PennsylvaniaStateU TreeConservationGenomics

The Hamilton Lab (http://jillahamilton.com/-index.html) at Pennsylvania State University is seeking to hire a postdoctoral research associate to contribute to a conservation genomics research program combining range-wide assessments of population genomic variation for three native eastern ash species (Green Ash, White ash, and Black ash) to establish conservation, breeding, and restoration strategies for native ash trees. The project includes a large collaboration with the US Forest Service, University of Connecticut, University of Tennessee-Knoxville, University of Notre Dame, and Natural Resources Canada. The researcher will contribute to coordinating range wide field sampling for leaf and seed tissue for ex situ conservation and establishment of genecology trials, and process tissue for landscape genomic and gene-environment analyses (GEA). Rangewide collection efforts for green ash are largely complete - but efforts are ongoing for both white ash and black ash for Fall 2022/23. The broad goal of this collaborative research will be to establish foundational genomic tools necessary to establish and enhance breeding strategies for native ash species. The postdoctoral scholar will lead the effort to describe naturally occurring genomic diversity for each species across its range providing a foundation needed for comparative genomics and EAB-screening. The post-doctoral scholar position is highly interdisciplinary, combining population and landscape genomic analyses to quantify

genetic variation maintained across natural populations and within ex situ and living collections, will use GEA analyses to estimate genetic-environmental associations necessary to establishing seed-transfer guidance across climatic gradients, and contribute to comparative genomic screening of families to pair with EAB-resistance phenotyping. The major goal of this research will be to build new methods in conservation genomics taking advantage of genomics-driven monitoring of eastern ash diversity and establish ex situ and living collections for species at risk. These resources will provide a foundation for conservation and development of genomic resources needed for the ash breeding program.

The position requires a Ph.D. in forestry, evolutionary biology, population genomics, landscape genomics, bioinformatics, or a related field, and the applicant must be able to provide evidence that all requirements have been met for the completion of the PhD. prior to the effective date of hire. Familiarity with analyzing RAD-seq data and expertise using bioinformatic tools to infer genomic structure is necessary, as well as experience using Unix or Linux environments. The postdoctoral fellow will be expected to contribute to coordinating field collections, analyze genomic, phenotypic, and climatic datasets, lead preparation and publication of peer-reviewed manuscripts, present findings from the research project, and contribute to outreach associated with the project. There will be ample opportunity to pursue research questions besides those of the particular study.

Interested applicants should submit a cover letter describing research interests and experience, a curriculum vitae, and contact information for three professional references to the Workday link below. This is a fixed-term position funded for one year from date of hire with an excellent possibility of renewal for multiple additional years. This position will be located at the Schatz Center for Tree Molecular Genetics at Pennsylvania State University in University Park (State College, PA). Review of applications will begin immediately and continue until the position is filled. Informal inquiries are welcome - contact Jill Hamilton (jvh6349@psu.edu).

Link to position description and application: https://-psu.wd1.myworkdayjobs.com/en-US/PSU_Academic/-job/Postdoctoral-Scholar—Tree-Conservation-Genomics-and-Breeding_REQ_0000038942-1 Jill Hamilton Director, Schatz Center in Tree Molecular Genetics Ibberson Chair of Silviculture Research Department of Ecosystem Science and Management Pennsylvania State University University Park, PA, USA 16802 (she/her/hers)

"Hamilton, Jill" <jvh6349@psu.edu>

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RobertKochInst WildauGermany Phylogenomics

The Phylogenomics Group at the Center for Artificial Intelligence in Public Health of the Robert Koch Institute is offering 3-year Postdoctoral positions.

For more details see

https://www.linkedin.com/jobs/view/3420200608/
"Kï¿½hnert, Denise" <KuehnertD@rki.de>

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Roscoff France TheoreticalEvolutionaryGenetics

Postdoctoral position - Roscoff, France - Modeling the early evolution of life cycles and reproductive systems.

A 3 years postdoctoral position is open at Roscoff's Biological Station (https://www.sb-roscoff.fr/en), to work with Denis Roze on a collaborative project leaded by Susana Coelho (Max Planck Institute for Biology, Tï¿½bingen) on the evolution of multicellularity and the emergence of life cycles and reproductive systems, financed by the Gordon and Betty Moore Foundation.

Context: the general objective of the project is to identify key genetic and regulatory changes that have been involved in the early evolution of multicellularity in the brown algal lineage, and to better understand the selective forces that may have moulded the life cycles and reproductive systems of early multicellular organisms. The project will thus combine single-cell RNAseq, genomic and functional genetic approaches (developed in MPI Tï¿½bingen) and theoretical approaches based on population genetic modeling (developed in Roscoff).

Main mission: the postdoctoral researcher will construct and analyze theoretical models exploring the joint evolu-

tion of several aspects of life cycles and genetic systems that have mostly been considered independently of each other: for exampled, the joint evolution of investment into sexual reproduction, mating types and degree of anisogamy, and/or the joint evolution of the relative degree of development in the haploid or diploid phase of the life cycle and investment into sex. These questions will be addressed using a combination of analytical and individual-based simulation models, taking into account the possibility that selection may act at different levels within populations of early multicellular organisms: between organisms, and between cells within organisms. Other questions relative to the evolution of sex determination systems, sexual dimorphism or gene regulation systems may also be explored, depending on the interests of the selected candidate.

Skills: candidates should hold a PhD in evolutionary biology and have experience in mathematical modeling and programming. Previous experience in theoretical population genetics modeling will be preferred. Candidates should also have a good level of English and be able to work in autonomy.

Work conditions: the postdoctoral researcher will be based at Roscoff's Biological Station (2h by train from Rennes, 3h20 from Paris) located on the scenic coast of North-West Brittany, with ferry connections to the UK and Ireland, and many possibilities for outdoor activities and nautical sports. Research at the marine station covers a large variety of fields from cell biology to evolutionary biology and ecology. Lab meetings are in English, knowledge of French is not mandatory. Salary will follow rules from the CNRS and depends on the previous experience of the successful candidate. The contract would ideally start before summer 2023.

Application: applicants should send their CV with full publication list, cover letter, names and email addresses of two referees to Denis Roze (roze@sb-roscoff.fr).

Denis Roze

IRL3614 CNRS - Sorbonne Universitï¿½

Station Biologique de Roscoff

Place Georges Teissier, CS90074

29688 Roscoff Cedex, France

Denis Roze <roze@sb-roscoff.fr>

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StonyBrookU Paleobiology

The Turkana Miocene Project is seeking a postdoctoral research associate interested in studying the ecology and evolutionary dynamics of primates and their related mammalian communities in the context of tectonic, climate, and environmental change over the Late Oligocene to Late Miocene in Turkana Basin, Kenya. The NSF-funded postdoc would work with faculty at Stony Brook University, as well as with a broad multidisciplinary and international team of researchers integrating field, laboratory, and modeling approaches. Applicants with expertise in analytical paleobiology - including modeling functional relationships between traits of organisms and their environments, paleoenvironmental reconstruction, and mammalian diversification dynamics and biogeography - are especially encouraged to apply.

Learn more about the project here: https://-turkanamiocene.com/ Postdoc position information and application: https://stonybrooku.taleo.net/-careersection/2/jobdetail.ftl?job=2204596&tz=GMT-05%3A00&tzname=America%2FNew_York We are excited to find a new colleague and look forward to their contributions to this integrative project! Any questions can be directed towards Tara Smiley (email: tara.smiley@stonybrook.edu; website: https://www.tarasmiley.com/).

Tara M. Smiley (she/hers) Assistant Professor Department of Ecology and Evolution Stony Brook University tara.smiley@stonybrook.edu https://-www.tarasmiley.com/ tara.smiley@stonybrook.edu

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TrierU GenomicsOfMatingTraitEvolution

Postdoctoral Researcher - Trier University- Genomics of Mating Trait Evolution

We offer a 24-month full-time postdoc position in the DFG-funded project "Detecting the genomic imprints of extreme sexual selection - Genetic architecture of SSD

and male self-sacrificial traits in a sexually cannibalistic widow spider". You will work in the lab of Henrik Krehenwinkel in the Department of Biogeography at Trier University in Germany. You will be working on a project aimed at identifying the genomic basis of mating traits in two sister species of black widow spider, which, though very recently diverged, show pronounced differences in their morphology and mating behavior. The Australian Latrodectus hasselti is distinguished by obligate sexual cannibalism, special male morphological adaptations to prolong survival while being consumed by females, and pronounced sexual size dimorphism. Latrodectus katipo, its sister species from New Zealand, lacks these traits. The two species can be readily intercrossed, and phenotyped F2 and backcrosses of the species will be available for this project. Using the crosses, we aim to identify the genetic basis of these sexually selected morphological and behavioral traits. Your task will be the assembly of a reference genome for the target species and QTL analysis based on low-coverage genome sequencing. Working together with a PhD student, you will also be involved in the analysis of brain gene expression analysis. The project is conducted in close collaboration with the labs of Jutta Schneider at the University of Hamburg and Cor Vink at the University of Canterbury in New Zealand. Applicants should hold a PhD and university degree (Diploma/Master or equitable), have a keen interest in evolutionary biology and experience in evolutionary genomics, ideally involving QTL mapping and RNA sequencing analysis. This is a pure research position and does not involve teaching duties. Severely disabled applicants who are equally qualified for the position will be given preference. Details on the use of personal data can be found in the data privacy statement in Article 13 DSGVO on our homepage. Please send your application (letter of motivation, CV, transcripts and the names of two references) as a PDF document in English or German language to Henrik Krehenwinkel (krehenwinkel@uni-trier.de) by February 15th, 2023. Any project-related questions can also be addressed to Henrik Krehenwinkel.

Prof. Dr. Henrik Krehenwinkel Biogeography Trier University phone: +49-(0)651-2014911 < http://biogeographie.uni-trier.de > https://www.uni-trier.de/index.php?id=67447 Henrik Krehenwinkel <krehenwinkel@uni-trier.de>

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UAberdeen UK EcoEvoModelling

Title: Research Fellow - Understanding eco-evolutionary range dynamics under global change.

Duration: 2 years.

An enthusiastic, motivated, and creative postdoctoral Research Fellow is sought to join a collaborative team within the School of Biological Sciences to develop new theory and predictive process-based models on species' range dynamics under environmental change.

The ideal candidate should have a strong background in theoretical evolution and/or ecology, strong programming skills, and interest in applying those skills to improve understanding and forecasting of species' eco-evolutionary range dynamics. The fellow will join Dr Greta Bocedi's team (https://gretabocedi.com/) and a wider strong team of PIs, postdocs and postgraduate students developing and applying the RangeShifter platform (https://rangeshifter.github.io/; led by Dr Greta Bocedi, Prof Justin Travis and Prof Damaris Zurell at the University of Potsdam, in collaboration with Dr Lesley Lancaster), who are embedded within a global collaborative network that will maximize both the impact of the work and the advancement opportunities to the postdoctoral researcher.

Further information and application: https://-www.abdnjobs.co.uk/vacancy/research-fellow-in-evolution-512244.html Informal enquiries are welcome to Greta Bocedi, greta.bocedi@abdn.ac.uk

Dr Greta Bocedi Royal Society University Research Fellow School of Biological Science, University of Aberdeen Zoology Building, Tillydrone Avenue, AB24 2TZ Tel: +44 (0)1224 272392 greta.bocedi@abdn.ac.uk www.gretabocedi.com Novo Nordisk Challenge Centre for Ecological Genetics www.ecogenetics.au.dk The University of Aberdeen is a charity registered in Scotland, No SC013683. Tha Oilthigh Obar Dheathain na charthannas cl?raichte ann an Alba, ?ir. SC013683.

"Bocedi, Greta" <greta.bocedi@abdn.ac.uk>

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UArizona EvolutionOrganismalForm

A postdoctoral position, supported by the G.G. Simpson Postdoctoral Fellowship, is available in the Badyaev lab at the Department of Ecology and Evolutionary Biology at the University of Arizona. This position was established to honor Prof. George Gaylord Simpson's work at our Department and provides an excellent opportunity for a productive and creative scientist to work on fundamental problems in evolutionary biology of their own choosing within the broad conceptual framework and empirical expertise of the lab. We are particularly interested in integrative organismal biologists wanting to master genomic, developmental or systems biology approaches to the evolution of organismal form and function. In addition to training and extensive laboratory facilities, there is an opportunity to participate in long-term field studies or to work with large multigenerational captive populations.

The position comes with a salary of $54,840/yr with full benefits and is renewable depending on funding.

Apply online submitting: 1) A single page outline of your dream research project inspired by integration of your existing expertise and approaches you would like to learn, 2) CV with contacts of three references, and 3) reprints of 2-3 of your most representative papers combined in a single file. Apply here: https://arizona.csod.com/ux/ats/careersite/4/home/requisition/13238?c=arizona The start date is flexible but anticipated to be after February 2023 or when the suitable candidate is identified. Review of applications will begin in late January 2023 and continue until the position is filled. Address inquiries to Alex Badyaev: abadyaev@arizona.edu.

Required qualifications: PhD in Biology or related field by Spring 2023, significant record of research in evolutionary organismal biology.

Preferred skills and abilities: (one or more of the following): Molecular genetics, genomic analysis, HPLC/UPLC, immunohistochemistry, bioinformatics.

abadyaev@arizona.edu

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UBern metacommunityDynamics

Three 100% funded PhD (3-4 years) or Postdoc (2+ years) positions are available in the establishing research group of Evolutionary Game Theory led by Professor Xiang-Yi Li Richter at the University of Bern, Switzerland. The positions are part of the Swiss National Science Foundation Starting Grants project "Integrating modeling and experiments to study species coexistence in metacommunities."

The specific PhD or Postdoc projects will be developed individually and should focus on using a combination of theoretical and empirical approaches to study how coexistence between interacting microbial species/strains can be maintained in spatially heterogeneous and temporally changing metacommunities, such as in soils, fermented foods, and the human gut and skin microbiota.

We aim to answer the following central questions: 1. How do higher-order multi-species biological interactions play out in heterogeneous spatial networks? 2. How do the dispersal network topology and dispersal rate influence the likelihood of coexistence? 3. Does the evolution of traits in each species promote or impede coexistence? Is coexistence more likely when the interacting species coevolve?

One of the three projects will focus on the empirical side, involving experiments with microorganisms (e.g., phage and bacteria interacting on dispersal networks formed by fungal hyphae). The other two projects will be mainly theoretical, involving mathematical modeling, computer simulations, statistics and data analysis.

<Your profile> Candidates must be highly motivated, creative, and able to work independently and collaboratively. Applicants from diverse scientific backgrounds (e.g., physics, mathematics, computer sciences, and biology) are encouraged. In their motivation letters, applicants from outside biology should state why they are interested in the study of ecology and evolution, and applicants from biology should state why they are interested in collaborating with theoreticians. In addition, candidates should explain how their study and research experience links to the central questions of the research project, and why they are interested in studying them. Candidates who intend to work on the empirical side need to have solid experimental skills to work in a microbiology lab. Candidates who intend to work on the theoretical side should have excellent mathematics and

programming skills, and ideally, experience working on an HPC cluster.

Candidates need to have good written and spoken communication skills in English, which is the working language of our institute. For the PhD positions, a Master's degree is required. For the Postdoc positions, a PhD degree is required. The positions are open to applicants worldwide. We are committed to increasing diversity, equity, and inclusiveness in evolutionary biology and especially encourage applicants from underrepresented groups.

The desired starting dates are negotiable but ideally between September and December 2023.

<We offer> The gross salary is around 48K CHF per year for PhD students and 80K CHF per year for postdocs. We offer a stimulating research environment with access to high performance computation facilities, funding for presenting studies at international conferences at least once a year, and unlimited funding for publishing peer-reviewed articles in open access journals. The city of Bern is ideally located in the middle of Switzerland and Europe, and provides rich cultural and outdoor activities.

<Contact and application> For informal inquiries regarding the position and for submitting your application, please send an email to Prof. Xiang-Yi Li Richter at "xiangyi.li.richter@unibe.ch". The review of applications will start on March 1st, 2023 until the positions are filled. Applicants must submit one merged PDF file that includes a letter of motivation (max 2 pages), a CV, and names of two referees who have agreed to provide a letter of recommendation if contacted, and copies of relevant publications and/or preprints. Incomplete applications will not be considered.

Xiang-Yi Li Richter (Dr. rer. nat.) Institute of Biology University of Neuchâtel Rue Emile-Argand 11 CH-2000 Neuchâtel Switzerland

I work flexibly and do not expect a response or action outside of your own working hours.

xiangyi.li.richter@unibe.ch

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UCalifornia LosAngeles Conservation

The 2023 UCLA La Kretz Center Postdoctoral Fellowship in California Conservation Science

DEADLINE EXTENDED: The deadline for this Post-Doc Fellowship has been extended and we will be accepting applications up until January 19th, 2023.

The UCLA La Kretz Center for California Conservation Science invites applications for its 2023 Postdoctoral Fellowship in California Conservation Science. We seek to hire one or more postdoctoral scholars who conduct innovative biological research at the interface of applied and basic science. Our long-term goal is to help fund a cadre of innovative young scientists who will work closely with UCLA faculty, help broaden the mission of conservation science for the campus, and lead to long-term collaborations between our academic scientists and applied conservation partners that will direct and lead California conservation efforts.

Candidates may work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. Current and past La Kretz Postdocs have worked on a wide variety of research topics, ranging from urban biodiversity and evolutionary adaptation, to wildfire management and conservation, to the interface of conservation and animal behavior; we are open to work in any California ecosystem or group of organisms, as long as the research is innovative, creative, and has clear practical significance. An important new initiative, the California Conservation Genomics Project (CCGP), is a large, multi-campus initiative led by the La Kretz Center that is delivering genomic resources to California decision-makers to enhance species and habitat management, and candidates may seek to build off of that project in the realm of conservation genomics. For a full description of past fellows and their work, please visit us at—https://www.ioes.ucla.edu/lakretz/ . Fellows must have both an on-campus UCLA mentor, and an off-campus, non-university mentor. Specifically, your on-campus UCLA mentor must be a La Kretz Center affiliate. A list of applicable affiliates is available at—https://www.ioes.ucla.edu/lakretz/people/. The Fellow is expected to work closely with their identified UCLA mentor and agency partner(s) in developing

their project, and all applications should include a letter (which may be brief) from each mentor stating their support for the project, what they can contribute to it, and how it fits into their work in conservation biology. Projects that bring co-funding, from mentors or other agencies or individuals, are always encouraged, but co-funding is not a requirement. Possible agency partners, and relevant contacts individuals includes, but is not limited to:

- The Nature Conservancy: Sophie Parker (restoration; urban conservation; invasive species)

- LA Natural History Museum: Jann Vendetti (mollusk ecology and evolution; species natural history)

- US Geological Survey: Robert Fisher (applied conservation; biodiversity; ecology and evolution)

- US Bureau of Land Management: Mike Westphal (applied conservation, climate change)

- US Fish and Wildlife Service: Cat Darst (endangered species management)

- Natural Communities Coalition: James Sulentich/Danny L. Fry (protection/recovery of sensitive species)

- National Park Service: Katy Delaney (amphibian and avian ecology, evolution, and conservation)

- National Park Service: Seth Riley (mammalian ecology, evolution, and conservation)

- Department of Defense: Robert Lovich (conservation on Dept. of Defense lands)

The La Kretz Fellowship is for two years, subject to review after the first year. The target start date is September 2023, and is flexible. The position offers a competitive salary, full benefits, and a research/travel allowance of $7500. Candidates who have recently completed their Ph.D. or will have completed it by August 2023 are encouraged to apply.

To apply, please send applications to lakretz@ioes.ucla.edu as a single PDF file that includes (i) a brief cover letter introducing yourself and your project, (ii) your full CV, (iii) a research and management accomplishments statement (maximum one page), (iv) a project proposal that lays out, in some detail, your project, including motivation, methods, expected outcomes/results, why this work is important to academic and applied audiences, and how it integrates with the research of your mentors (maximum three pages, including figures and references), (v) a letter of support (which may be brief) from your on-campus UCLA mentor and your off-campus agency/NGO mentor, and (vi) two of your relevant publications. We also ask that you have (vii) two letters of reference sent, one of which must be from your Ph.D. advisor (These are in addition to the letters from your mentors). Please arrange to have

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UCalifornia LosAngeles ConservationDeadlineExtended

The 2023 UCLA La Kretz Center Postdoctoral Fellowship in California Conservation Science

DEADLINE EXTENDED: The deadline for this Post-Doc Fellowship has been extended and we will be accepting applications up until January 19th, 2023.

The UCLA La Kretz Center for California Conservation Science invites applications for its 2023 Postdoctoral Fellowship in California Conservation Science. We seek to hire one or more postdoctoral scholars who conduct innovative biological research at the interface of applied and basic science. Our long-term goal is to help fund a cadre of innovative young scientists who will work closely with UCLA faculty, help broaden the mission of conservation science for the campus, and lead to long-term collaborations between our academic scientists and applied conservation partners that will direct and lead California conservation efforts.

Candidates may work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. Current and past La Kretz Postdocs have worked on a wide variety of research topics, ranging from urban biodiversity and evolutionary adaptation, to wildfire management and conservation, to the interface of conservation and animal behavior; we are open to work in any California ecosystem or group of organisms, as long as the research is innovative, creative, and has clear practical significance. An important new initiative, the California Conservation Genomics Project (CCGP), is a large, multi-campus initiative led by the La Kretz Center that is delivering genomic resources to California decision-makers to enhance species and habitat management, and candidates may seek to build off of that

project in the realm of conservation genomics. For a full description of past fellows and their work, please visit us at—https://www.ioes.ucla.edu/lakretz/ . Fellows must have both an on-campus UCLA mentor, and an off-campus, non-university mentor. Specifically, your on-campus UCLA mentor must be a La Kretz Center affiliate. A list of applicable affiliates is available at—https://www.ioes.ucla.edu/lakretz/people/. The Fellow is expected to work closely with their identified UCLA mentor and agency partner(s) in developing their project, and all applications should include a letter (which may be brief) from each mentor stating their support for the project, what they can contribute to it, and how it fits into their work in conservation biology. Projects that bring co-funding, from mentors or other agencies or individuals, are always encouraged, but co-funding is not a requirement. Possible agency partners, and relevant contacts individuals includes, but is not limited to:

The Nature Conservancy: Sophie Parker (restoration; urban conservation; invasive species)

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US Bureau of Land Management: Mike Westphal (applied conservation, climate change)

US Fish and Wildlife Service: Cat Darst (endangered species management)

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Department of Defense: Robert Lovich (conservation on Dept. of Defense lands)

The La Kretz Fellowship is for two years,—subject to review after the first year. The target start date is September 2023 and—is flexible. The position offers a competitive salary, full benefits, and a research/travel allowance of $7500. Candidates who have recently completed their Ph.D. or will have completed it by August 2023 are encouraged to apply.

To apply, please send applications to lakretz@ioes.ucla.edu as a single PDF file that includes (i) a brief cover letter introducing yourself and your project, (ii) your full CV, (iii) a research and management accomplishments statement (maximum one page), (iv) a project proposal that lays out, in some detail, your project, including motivation, methods, expected outcomes/results, why this work is important to academic and applied audiences, and how it integrates with the research of your mentors (maximum three pages, including figures and references), (v) a letter of support (which may be brief) from your on-campus UCLA mentor and your off-campus agency/NGO mentor, and (vi) two of your relevant publications. We also ask that you have (vii) two letters of reference sent, one of which must be from your Ph.D. advisor (These are in addition to the letters from your mentors). Please arrange to have

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UCalifornia LosAngeles LandscapeGenomics

Position: UCLA Postdoctoral Position in Environmental Data Science or Landscape Genomics

Description: The research group of Victoria Sork in Department of Ecology and Evolutionary Biology seeks a Postdoctoral-Scholar in two areas: environmental data science or landscape genomics. The position will be Full-time for 24 months, subject to satisfactory work performance review after one year. The position can start as early as April 1, 2023 (negotiable).

The post-doctoral researcher in environmental data science will develop a data management system for a 20-year provenance (AKA common garden) of valley oak families grown from acorns collected from 564 trees located throughout the species range. Each year for the last 10 years, data have been collected on growth, survivorship, and focal phenotypic traits resulting in several publications. With funding from the National Science Foundation LTREB program, our goal is to set up an integrative data base and web-based interface that will allow team members, and eventually, the public to utilize the multi-year dataset. The successful candidate will be part of an interdisciplinary team led by Drs. Victoria Sork (UCLA) and Jessica Wright (USDA Forest Service) with other collaborators on a project focusing

on the role of adaptation and maladaptation in shaping survival and growth of oaks experiencing climate warming. Postdoctoral candidates for this position will have the opportunity to develop a project using these data in a discipline of their interest

The landscape genomics post-doc will analyze whole genome sequence data for repeated samples for trees sampled throughout the species range of two California oak species: coast live oak and blue oak. In collaboration with others, the successful candidate will participate in all aspects of the project: sample design, DNA preparation, bioinformatic analyses of the sequences returned from core facility, landscape genomic statistics, and manuscript. This position is part of a partnership with The Nature Conservancy to use landscape genomics as a tool to assess vulnerability to future climate change and develop conservation strategies for oak populations.

Qualifications: Ph.D. in biology, ecology, environmental science, evolutionary biology, geography, or conservation science with expertise in environmental data science or landscape genomics.

Application: Candidates should submit the following documents to https://recruit.apo.ucla.edu/JPF08152 1) Cover letter that includes the following information: (i) short personal statement describing your motivation and experience relevant to the specific project; (ii) specific computational or statistical skills relevant to position; (iii) contact information for three referees.

2) Curriculum Vita

3) Statement of research that includes specific research interests and expertise in environmental data science or landscape genomics

4) EDI statement summarizing your efforts and interest to promote equity, diversity, and inclusion

5) PDFs of 1-3 publications

Please direct nominations, inquiries, or interest in the position to Prof. Victoria Sork at vlsork@ucla.edu. Review of applications will begin February 28, 2023 and continue until filled.

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: UC Nondiscrimination and Affirmative Action Policy (http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct)

vlsork@ucla.edu

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UCopenhagen PopulationGeneticsAfricanMammals

A 2-year Post doc position is now open at the Department of Biology, University of Copenhagen. The position is in the Wildlife Genetics group led by Rasmus Heller, and will work on analyzing several large genomic data sets from African mammals. The position is part of the African Wildlife Genomics project in which we will sequence 10,000+ individuals spanning 20+ species of large African mammals and use population genetics to better understand the evolutionary history of Africa's megafauna. Topics under investigation include population structure, phylogeography, gene flow, speciation, local adaptations, demographic history and conservation.

The preferred candidate has a strong background in analyzing whole-genome data, including a thorough understanding of NGS data and bioinformatic processing of raw sequencing data. The candidate must also be able to demonstrate an interest in - or preferably experience with - population genetic method development. In addition, the candidate must have demonstrated expertise in performing population genetic analyses on such data using state-of-the-art tools. The candidate is expected to be proficient in at least one scripting language and have a solid statistical background.

The position will provide an opportunity to work on unique data sets and problems in an engaging host environment. Rasmus Heller's group is part of a larger Statistical and Population Genetics cluster consisting of four research groups and PIs working closely together on the African Wildlife Genomics project. This ensures a strong, collaborative scientific environment with diverse expertise ranging from theoretical population genetics and methods development to molecular ecology and conservation genetics. We have a large network of Danish and international collaborators, including close ties to African research environments. Working conditions and quality of life in Denmark are among the best in the world.

The deadline for application is February 20th 2023, and the starting date is June 1st 2023. For further information and a link to the formal application page, see the official advertisement here:

https://jobportal.ku.dk/videnskabelige-stillinger/-?show=158372 Further questions can be addressed to Rasmus Heller at rheller@bio.ku.dk.

Group website:

https://rathmuth.wixsite.com/wildlifegenetics Rasmus Heller <rheller@bio.ku.dk>

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UCyprus PopulationGenomics

Postdoctoral research position in genomics and transcriptomics at the University of Cyprus

We are looking for a postdoctoral researcher to work on two Cyprus Research and Innovation Foundation (RIF) projects in Alex Kirschel's lab at the Department of Biological Sciences at the University of Cyprus. The projects "Leveraging ancestry to investigate the genomics of song and colour in birds" and "Continent-wide genomics of hybridisation and speciation" involve collaboration with Associate Professor Bridgett vonHoldt, an expert in evolutionary genomics and epigenetics at Princeton University and Dr. Andrea Fulgione an expert in evolutionary and computational genomics of plants at Max Planck Institute for Plant Breeding Research.

The role involves working on bioinformatics pipelines and downstream genomics analyses of whole genome sequences and ddRAD sequencing, working closely with Dr. vonHoldt and Dr. Fulgione. Genomics analyses include admixture mapping, GWAS, and RNAseq to examine gene expression patterns associated with phenotypic characters important in speciation. Population genomics analyses will include demographic inference, based on site frequency spectrum and multiple sequentially Markovian coalescent (MSMC) approaches, as part of an investigation into discordance between nuclear genome and mitogenome phylogenies, while D statistics, metabarcoding and landscape genomics approaches will also be used.

Requirements A PhD in a related subject Molecular lab experience in genomic library preparation Proficiency in R Expertise in bioinformatics and command line A good understanding of transcriptomics Proficiency in English

Desirable skills Experience with demographic inference First author publications in peer-reviewed scientific journals

Location The position is based at the University of Cyprus, in Nicosia. The position is for an initial 12 months, with possibility of extension. The gross annual salary range for full time employment ranges from euro 26,000 - euro 32,500 per annum commensurate with experience.

How to apply Applications for this position are due by 17th February 2023. Informal enquiries and applications, including a cover letter, CV, details of two referees, and a list of publications, should be sent by email to:

Associate Professor Alexander Kirschel Behavioural Ecology and Evolution Lab Department of Biological Sciences University of Cyprus kirschel@ucy.ac.cy

Alexander Kirschel <kirschel.alexander@ucy.ac.cy>

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UFlorence-ERGA-BGE Two BiodiversityDataManagers

PROJECT DATA MANAGER SUPPORTING LARGE-SCALE GENOME SEQUENCING AND ASSEMBLY PROJECT

We seek a highly motivated individual for a Postdoctoral position to coordinate biogenome project data and metadata management for the European Reference Genome Atlas (ERGA) stream of the BIODIVERSITY GENOMICS EUROPE (BGE) project. Working with others across Europe, the project offers opportunities to discuss, design, and implement innovative research data management solutions, with parallel needs for visualisations and interoperability with major European data infrastructures. ERGA (https://-www.erga-biodiversity.eu/) is a pan-European initiative aiming to generate high-quality reference genomes for a variety of non-model eukaryotic species. The BGE project (https://biodiversitygenomics.eu/) is funded by the Horizon Europe Programme under the Research and Innovations Action Call on Biodiversity and Ecosystem Services "European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth

The position has an annual salary of euro 33,000 (euro 27,000 for Italian residents) and is available for up to three years, subject to annual review, starting from

March 1, 2023 at the Department of Biology, University of Florence (Italy). The successful candidate will have the liberty of working on site and/or remotely upon mutual agreement.

Scientific context: Specific measures for preserving European ecosystems as a part of the European Commission Biodiversity Strategy are devoted to a comprehensive description of wildlife genomics. In particular, the characterization of high-quality, chromosome-level reference genomes of key European species can help understand past and present demographic trends and predict if, how and to which extent species important to ecosystem services will cope with habitat changes, how their distribution can respond to the ongoing shifts in habitat quality, and what their level of resilience will be in terms of e.g. susceptibility to pathogens and adaptation to a changing environment. Understanding features of the genome related to the ability of organisms to respond to such challenges will help better understand how to preserve ecological community and ecosystem functions. One of the main goals of the BGE Project is to establish the European node of the Earth BioGenome Project (EBP) and coordinate and upscale a distributed infrastructure for generating reference-quality genome sequences of European biodiversity. The BGE Project will also enable population genomic studies on organisms relevant to ecosystem function, agriculture, fishery as well as endangered species and endemisms.

Candidate profile and duties: The position is meant to support efficient and accurate data and metadata collection under the BGE project respecting Findable, Accessible, Interoperable, and Reusable (FAIR) standards. The ideal candidate will have experience with databases, data wrangling, good knowledge of some scripting language (e.g. Python and/or Bash) and good interpersonal and communication skills. Prior experience with the COPO data brokering platform (https://-f1000research.com/articles/9-495),

genomic workflows and the ENA database are desirable but not compulsory. The postdoctoral appointee will help coordinate the activities of the ERGA stream of the BGE project regarding sample acquisition and metadata collection, and implement, maintain, and update data management systems and software infrastructure that will be used to collect the metadata associated with all the samples processed under the BGE Project. The person will also support the data wrangling process across the multiple BGE institutions and the public archives (particularly the European Nucleotide Archive, ENA), work closely with members from the ERGA scientific committees and participate in discussion groups around metadata collection connected to ERGA through the EBP.

Application: Interested candidates should have a PhD in Biology, Bioinformatics, Computer Science or related areas. They may want to submit a preliminary enquiry including 1) a cover letter presenting the research interests and relevant experience of the applicant (max. 1 page), 2) a Curriculum Vitae including the list of publications, and 3) the names and e-mail addresses of two referees to: chairs@erga-biodiversity.eu.

The deadline for applications is January 31, 2023. By this date, applicants will need to fill in the online application form here: https://stlabtest.dinfo.unifi.it/beta/-akademia-candidature/announcements-search (The application form can be accessed by first clicking the upper right

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UGranada Spain Multiple Evolution

The Modeling Nature Research Unit (https://-modelingnature.org) at the University of Granada (Spain) requests declarations of interest in applications for four post-doctoral fellowships funded by Junta de Andalucï¿½a (Regional Government), including, among others, the following topics (open to discussion):

- The genomics of phenotypic plasticity. Working with our model plant (Moricandia arvensis; Brassicaceae; https://doi.org/10.1038/s41467-020-17875-1) to explore the genetic basis of phenotypic plasticity in flowers and leaves using both computational and lab approaches.

- Computational approaches to understanding phenotypic plasticity's epigenetics basis (methylome and small RNAs).

- Gene evolution in interaction networks

We offer a stimulating, interdisciplinary, collaborative working environment with an open academic atmosphere. Positions can start from March 2023, and their duration is one year, with the possibility of an extension for 18 additional months. Different starting dates can be considered. According to experience and CV, salary is negotiable in a salary range of 32,000 to 42,000 euros (gross pay). Successful candidates will enjoy an allowance for travel and research expenses.

Candidates should submit the following application materials: - CV including publications (4 pages max) - A motivation letter describing your prior research experience - Future research interests (2 pages max) - Two letters of recommendation or a list of individuals who will provide letters of reference.

Please send the material to the email addresses mnat@ugr.es, fperfect@ugr.es, and hackenberg@ugr.es before January 22nd, 2023.

An interview will be required for short-listed candidates.

We recognize that diversity is essential to bring together different perspectives and increase teams' creativity, which results in better science. That is why we welcome applications from all backgrounds and are committed to providing equal employment opportunities, regardless of ethnicity, nationality, sex, sexual orientation, or gender identity.

MORE INFO:

https://www.modelingnature.org/single-post/4-postdoctoral-positions-available Best regards,

Francisco

Francisco Perfectti Grupo de Genï¿½tica Evolutiva Departamento de Genetica & Research Unit Modeling Nature Evoflor (Universidad de Granada), Unidad Asociada al CSIC Universidad de Granada 18071 Granada, SPAIN

fperfect@ugr.es

wpd.ugr.es/~fperfect www.evoflor.org www.modelingnature.org fperfect <fperfect@ugr.es>

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UHelsinki ancientDNA

Postdoctoral Position

PaleOmics-laboratory, Faculty of Medicine, University of Helsinki, Finland

Deadline: January 31, 2023

Professor Antti Sajantila's group is looking for a postdoc in ancient-DNA project, including analysis human and pathogen DNA in contextually well-described ancient specimens from Finland and Peru.

Time period: 24 months in 2023-2024, possibility for extension.

Qualifications: The successful candidate will hold a PhD in evolutionary biology, biochemistry, population genetics, microbiology, human genetics, bioinformatics, or related fields. Experience in working in DNA laboratory and/or analysis of DNA data and/or bioinformatics is required. Solid previous publications in these fields is important criterion. An independent working style and dynamic personality are valued. Working language is English.

Work conditions: The postdoc will be based at the PaleOmics laboratory, which is located in the Haartman Institute / Department of Forensic Medicine as part of the Medical Faculty in the University of Helsinki and in the midst of Helsinki University Hospital Campus. We are in a research oriented campus with many possibilities for collaboration with the Departments of Virology, Pathology, Anatomy, Human Genetics (www.finngen.fi/-en) and Forensic Medicine. University of Helsinki was founded in 1640, and is one of the world's leading universities for research; among the top 100 in the Academic Ranking of World Universities (Shanghai list).

Application process: Applicants should send a single PDF file including a motivation letter describing experience and expertise relevant, CV with a list of publications, and the contacts for 3 references, to antti.sajantila@helsinki.fi by 31.1.2023 or ask for extension of this deadline, if needed.

Position will be filled as soon as suitable candidate is found.

For more information, contact Professor Antti Sajantila

Email: antti.sajantila@helsinki.fi

Mobile: +358-400-605205

"Sajantila, Antti J" <antti.sajantila@helsinki.fi>

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

UHelsinki EvolutionaryGenomics

Postdoc: EVOLUTIONARY GENOMICS, SPECIATION AND HYBRIDIZATION, University of Helsinki

The University of Helsinki, founded in 1640, is one of the world's leading universities for multidisciplinary research. The university has an international academic community of 40,000 students and staff members. The University of Helsinki offers comprehensive services to employees,

including occupational health care and health insurance, sports facilities, and opportunities for professional development. The International Staff Services office assists employees from abroad with their transition to work and life in Finland.

The Organismal and Evolutionary Research Programme (OEB) of the Faculty of Biological and Environmental Sciences comprises roughly 40 research groups, which employ 40 principal investigators and 120 researchers. The research programme is situated in the Viikki science park.

Research group SpecIAnt (Speciation and hybridization in ants) at the Organismal and Evolutionary Biology Research Programme is looking for outstanding candidates for a position of:

POSTDOCTORAL RESEARCHER IN EVOLUTIONARY GENOMICS, SPECIATION AND HYBRIDIZATION

for a fixed term of 2 years starting from 1.3.2023, or as soon as the best applicant is available. Possibility for 1 year extension exists.

About the group and research: The group SpecIAnt is an established, Academy of Finland funded research group at the Organismal and Evolutionary Biology Research Programme. Combining genomics, modeling and fieldwork experiments, our team investigates the speciation process and outcomes of hybridization using wood ants as a model system. Previously, we have discovered widespread hybridization between wood ant species in Southern Finland and documented sex specific and environment dependent hybrid breakdown in natural populations. Recently, we have shown rapid and predictable genome evolution driven in part by selection in three hybrid populations. The postdoctoral researcher will continue this work investigating drivers of hybrid genome evolution by comparing whole genome data from up to 20 independent hybrid populations. The main aim of this project is to try and disentangle between different selective pressures (e.g. intrinsic, ecological, parental load) and investigate to what extent hybridization outcomes can be predicted. Opportunities to tailor the project towards the interests of the candidate exist.

Team SpecIAnt consists of the PI, three PhD students and several yearly interns. It has a good collaboration network including established collaboration with Simon Martin and Konrad Lohse (University of Edinburgh), Prof. Heikki Helanterä (University of Oulu), Prof. Roger Butlin (University Sheffield), Prof. Sally Otto (University Vancouver) and Assistant Prof. Vitor Sousa (University Lisbon). Collaborators offer opportunities for knowledge exchange.

Requirements of the position: The candidate should have a PhD degree and previous postdoctoral experience. The successful candidate should be self-motivated and responsible with excellent team working, problem solving, and analytical skills. Previous experience in analysing data from high-throughput sequencing and working in Unix/Linux environments is required. A background in population genetic data analysis or speciation genetics is also required. Furthermore, the successful candidate can contribute to the maintenance of a cohesive team, since the PI will be working mainly from the University of Amsterdam, while the current team will remain in Helsinki.

What does the position offer? The position offers opportunities to work with extensive population genomics data and resources. Furthermore it allows to develop leadership skills and independent research themes taking advantage of the wood ant system and its resources (study populations, reference genome and good collaboration network).

The starting salary will be 3400 - 3800 euros/month, depending on the appointee's qualifications and experience. A four-month trial period will be applied.

To apply, please submit your application by 25.1.2023 using the University of Helsinki electronic recruitment system by clicking on Apply for job. Internal applicants (i.e., current employees of the University of Helsinki) must submit their applications through the SAP HR portal.

Upload a single pdf-file containing a one-page letter with a personal statement outlining your research interests and relevant work experience, your CV (including publication list), as well as contact information for 2 references.

For additional information, please contact Dr. Jonna Kulmuni by email: jonna.kulmuni(at)helsinki.fi. For further information about the research group see https://jonnakulmuni.wordpress.com/ Technical support with the recruitment system: recruitment(at)helsinki.fi

Apply at latest 25.1.2023

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ULausanne PopulationGenomics

A postdoctoral position in population genomics is available in the research group of Jerome Goudet in the Department of Ecology and Evolution, University of Lausanne. The postdoc will join a team working on Population Genomics, in particular barn owls (Tyto alba) and the understanding of the interplay of population structure, trait architecture, and selection using different approaches, from theory and the development of statistical tools to field observations For details, see http://www.unil.ch/dee/goudet-group Expected start date in position : 01.03.2023 / to be agreed. The starting date is flexible but funding is available immediately.

Contract length : 1 year, renewable 2 x 2 years, up to a maximum of 5 years.

Activity rate : 100%

Workplace : Lausanne-Dorigny, Switzerland

The chosen candidate could work on several empirical or theoretical questions using either a recently acquired data set of over 3'000 low coverage Whole Genome sequences from a pedigreed population of Swiss barn owls, or 300 genomes obtained from museum samples of barn owl all over the world. With these data, we want to answer several questions among which the past history of the species, the genetic architecture of several morphological and fitness related traits and whether they evolved in the recent past. But we are also interested in methods to impute and phase lcWGS using pedigree information. The chosen candidate could also work on theoretical / statistical population genomic questions building on recent papers from the group.

The ideal candidate will have :

- a PhD in population genomics, (theoretical) population genetics, statistics physics or applied mathematics, with a strong interest for evolutionary questions; excellent communication skills; - a technical skill set that includes at least one of the following : generation and analyses of population genomic NGS data; evolutionalry population genomics modelling; quantitative genetics and GWAS; programming, bio-informatics, and statistics. - experience and an interest in working with birds could be an advantage; - good interpersonal skills; - an ability to work in a team. We offer a nice working place in a multicultural, diverse and dynamic academic environment. Opportunities for professional training, a lot of activities and other benefits to discover.

The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. Although French is the common language in Lausanne region, the department research activities and seminars are conducted in English.

The campus is located on the shore of the Geneva Lake, with the view on the Alps.

Informal inquiries for further details of the aim of the project should be sent to Jérôme Goudet (jerome.goudet@unil.ch)

Deadline : 25.01.2023

Formal applications should include :

a cover letter detailing your research interests, experience and motivation for applying; - a CV - copy of your PhD degree (or when you will get it); - the names of two or three referees.

- Please, send your full application in a single PDF document.

- Only applications through the following website https://tinyurl.com/yj6u32ry will be taken into account.

Review of applications will begin immediately, so get in touch as soon as you have submitted your application.

Jérôme Goudet Dept. Ecology & Evolution Biophore, UNIL-Sorge CH-1015 Lausanne http://www.unil.ch/dee/goudet-group mail:jerome.goudet@unil.ch Tel:+41 (0)21 692 4242

Jérôme Goudet <jerome.goudet@unil.ch>

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ULodz VertebrateEvolution

Postdoc: EXILE - University of ÅódÅo, Poland - Department of Ecology and Vertebrate Zoology

REVIEW OF APPLICATIONS WILL CONTINUE UNTIL THE POSITION IS FILLED

An exciting postdoctoral position funded by the Polish National Science Centre (NCN, grant EXILE) is available at the Department of Ecology and Vertebrate Zoology of the University of ÅódÅo (Poland)

under the supervision of Philippe Kok (STELLAR Research Group, see http://www.philippekok.com/stellar-research-group/). The position is offered for one year, renewable for an additional year (thus 2 years total) and is available immediately.

Brief scientific summary of the project: While potential responses of vertebrate communities to environmental constraints have been widely tested in post-Pleistocene landscapes, extrinsic and intrinsic drivers of vertebrate population density in ancient insular terrestrial landscapes (fragmented paleosurfaces) are essentially unknown. The overarching objective of this project (acronym EXILE for EXobIoLogy on Earth) is to explore, document and understand how environmentally hostile naturally fragmented paleosurfaces may have driven/altered peculiar behavioural, bio-physical and eco-physiological adaptations, and ultimately the evolutionary trajectories of vertebrates. EXILE focusses on the "Lost World" moonlike tabletop mountains of northern South America (tepuis). We hypothesize that ancient endemic lineages of vertebrates thriving on these paleosurfaces, such as the toad genus Oreophrynella and the lizard genus Riolama, have developed unique behavioural, bio-physical and eco-physiological traits/strategies to cope with the tepuis' highly contrasted environmental conditions. EXILE stems from our previous work in this unique system and was inspired by unconventional findings, testimony to the tremendous research discoveries yet to be made in this unusual ecosystem. It is well known that body temperature and water balance are jointly influenced by heat and water exchange within the organism and between the organism and its environment. This exchange is modulated by (i) the biophysical and physiological properties of the organism and by (ii) behavioural strategies. Biophysical properties include morphology, surface properties, and metabolic modes. For instance, skin colour, thickness, and ultrastructure in reptiles and amphibians determine heating capacity and resistance to water loss. EXILE will specifically focus on two main complementary research axes: (1) thermal biology, and (2) bio-physical adaptations to dehydration. We will use selected Pantepui amphibians and reptiles on a single tepui summit at ca. 2,800 m elevation. In order to situate these results in the appropriate ecological and evolutionary context, we will also investigate non-insular upland (ca. 1,000 m elevation) closely-related taxa in the surrounding Pantepui tropical rainforest, as well as the closest relatives of the tepui taxa living in a Neotropical post-Pleistocene landscape at similar elevation (ca. 2,800 m elevation in the sub-paramo in the Andes). Field expeditions coupled with the use of advanced techniques such as highly sensitive thermal imagery, including the use of drones to record thermal images of the landscapes from the air, will be carried out to complete our project. We will also run a variety of cutting-edge behavioural tests, either in the native environment of the animals or in our field laboratory, and use modern imagery techniques (such as high-resolution X-ray microcomputed tomography and electronic microscopy).

Summary for the public is available here:

https://ncn.gov.pl/sites/default/files/listy-rankingowe/2020-09-30apsv2/streszczenia/505651-en.pdf Requirements: We are looking for an out of the box thinker with strong motivation and positive energy, as well as an eye for the details and excellent organisational skills. The successful candidate will have a PhD in biological or closely related science and experience in field work, preferably under difficult conditions and during extended periods. The EXILE project involves heavy field work in different locations (such as tepui top, intervening forest at tepui foot, and one locality around 2,800m elevation in the Andes), for usually 6-8 weeks.

The ideal candidate will also have some of the following: Excellent publication record (according to experience); Excellent skills in statistics; Experience in behavioural tests; Experience in thermal imagery (a drone pilot license is a plus); Experience in Î¼CT/SR-Î¼CT/SEM/TEM/soft-tissue staining techniques; Experience in population estimates; Background in amphibians and/or reptiles eco-physiology

Among other things the successful applicant will conduct field work with

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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

ULyon MosquitoPopulationGenomics

Postdoc - Lyon - Population genomics of transposable elements in mosquitoes

A 24-month postdoctoral position is available to work in Lyon on the contribution of transposable elements to

adaptation in the Asian tiger mosquito Aedes albopictus.

Ideal starting date: March 1st, 2023

Monthly net salary (health insurance included): from 2277 euro to 2617 euro

Context: The recruitment takes place in the framework of the ANR funded project MosquiTEs led by Matthieu Boulesteix, Associate Professor at Univ. Lyon 1. The project aims at investigating the contribution of transposable elements (TEs) in recent adaptation using the Asian tiger mosquito Aedes albopictus as a model. Aedes albopictus is a vector of Dengue and Chikungunya viruses and an invasive species. It recently spread from an Asian tropical cradle to many parts of the world including temperate regions. Its large genome (1.5-2 Gb) is riddled with TEs (>55%), which are self-replicating repetitive sequences. While TEs are often deleterious and considered as genomic parasites, there are also spectacular evidence of TE-driven adaptations such as insecticide resistance in Drosophila or industrial melanism in the peppered moth. However systematic investigations of the contribution of TEs to adaptation are rare, especially in species with large genomes. The MosquiTEs project aims to do so, leveraging a large genome project led by our collaborators. This population genomics dataset consists in more than 1000 individual genomes sequenced with Illumina technology.— These individuals were sampled from 50 populations distributed all over the world, including tropical and temperate populations.

Missions: Working closely with M. Boulesteix the postdoc is expected to lead the bioinformatic and statistical analyses of TEs in this population genomics dataset and in particular: i. genotype all TE insertions for recently active TE families using existing pipelines ii. perform population genomics analyses (genome scans) such as differentiation outlier analyses and/or genotype-environment associations to detect TE insertions whose frequencies have been influenced by natural selection and that thus may contribute to adaptation.

Skills: The ideal candidate should: - hold a PhD in bioinformatics or population/evolutionary genomics - have the ability to handle large genomic datasets - have experience in using a computing cluster - have programming skills (bash, R, Python...) - have interest in TEs and/or population genomics - be open-minded and able to work in autonomy as well as interact with other people in a positive way - have a good level of written and spoken English

As probably no one will have all the above mentioned skills do not restrain yourself from applying if you possess some of them.

Work context: The selected candidate will join the Evolutionary Genetics of Interactions (EGI) group within the Laboratory of Biometry and Evolutionary Biology (LBBE) in Lyon (https://lbbe-web.univ-lyon1.fr/en). The LBBE is a large lab (ca. 200 people) dedicated to the study of ecology and evolution and a leading lab in France in bioinformatics. It is in particular equipped with a large computing cluster. The EGI group members' research interests revolve around the study of conflict and cooperation between the multiple components of organisms, from genes to symbiotic bacteria, viruses and transposable elements. Within EGI, several people focus particularly on TEs (Matthieu Boulesteix, Marie Fablet and Cristina Vieira in addition to one postdoc and several PhD students). Matthieu Boulesteix's research is dedicated to the study of the role of TEs in adaptation and their dynamics at a microevolutionary scale and he has an acknowledged expertise in mosquito genomics and population genomics (e.g. https://doi.org/10.1093/gbe/evv050, https://doi.org/10.1111/mec.14184, https://doi.org/10.1093/molbev/msab155).

Lyon is France's 3rd largest city and is very dynamic with 180,000 students. It has a rich history that traces back to the Romans and it is included on the list of UNESCO world heritage sites (https://whc.unesco.org/en/list/872/). Lyon is surrounded by natural Parks (Vercors, Chartreuse, Haut-Jura, Livradois-Forez, Ardèche...) and is two hours away from the Alps. Geneva is accessible by train or car in less than two hours, Paris in 2 hours by train as are Marseille and the Mediterranean Sea.

Meetings in the group are held in English. French may help in social interactions but is far from mandatory.

How to apply: - Inquiries to Matthieu Boulesteix (matthieu.boulesteix@univ-lyon1.fr) - Application through the CNRS portal is mandatory (cover letter, CV

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UMaine WildlifeDiseaseGenomics

Title: Postdoctoral Research Associate in Wildlife Disease Genomics

Location: University of Maine, Orono

A postdoctoral research position is available in the Wildlife Disease Genetics Laboratory at the University of Maine to examine the causes and risk factors of pneumonia-related mortality in white-tailed deer, including host evolution and relationships with chronic wasting disease. The postdoc will join an interdisciplinary team to integrate metagenomics sequence data with pathology and ecological data, using bioinformatics and statistical modeling approaches. They will work closely with the PI (Dr. Pauline Kamath), as well as collaborators at the Wisconsin Department of Natural Resources, the University of Wisconsin, and the US Geological Survey. Funding is available for 1 year (renewable up to 2 years, depending on funding availability and successful performance).

Required Qualifications:

Ph.D. (or equivalent) in ecology, evolution, epidemiology, microbiology, genomics, or related discipline by the start date of the appointment.Strong quantitative and writing skills.Experience in applying genetic approaches to ecological datasets. Preferred Qualifications:

Strong publication record in disease ecology and evolution.Demonstrated skills in genomics, bioinformatics, and statistical analyses, including programming in R.Experience in laboratory or project management.Experience working in diverse collaborative teams.Experience in mentoring students.

How to Apply:Interested qualified applicants are encouraged to submit an application (cover letter, CV, and contact information for three references) at the link below.

https://umaine.hiretouch.com/job-details?jobID=-80141&job=postdoctoral-research-associate-in-wildlife-disease-genomics Search Timeline: Review of applications to begin: February 13, 2023 Screening interviews to begin no earlier than: February 20, 2023 On-site interviews to begin no earlier than: February 27, 2023 Tentative start date: March13, 2023

Questions about the position can be directed to Dr. Pauline Kamath (pauline.kamath@maine.edu).

Pauline L. Kamath, Ph.D.

Associate Professor of Animal Diseases Animal and Veterinary Sciences School of Food & Agriculture

5735 Hitchner Hall, Rm 342 University of Maine Orono, ME 04469-5735 Phone: +1 207-581-2935 Email: pauline.kamath@maine.edu Website:https://-umaine.edu/foodandagriculture/kamath2/ Pauline Kamath <pauline.kamath@maine.edu>

UMinnesota TranscriptomicsPolyploidization

Post doc to study transcriptomics of polyploidization

Susan Balenger is seeking a post-doctoral scientist to join an NSF-funded project for 1 year, and with possible extension, up to 3 years. The post doc will be based in the EEB department at UMN. Research focus is on understanding how changes in gene dosage associated with polyploidization in the gray treefrog complex impact neuroendocrine regulation. This is a highly collaborative project, and the post doc with have extensive opportunities to work with co-PIs Chris Leary (https://olemiss.edu/learylab/) and Lainy Day at the University of Mississippi.

In collaboration with Balenger, the post doc will lead the assembly, annotation, and analysis of RNAseq derived datasets. The post doc will be expected to further integrate gene expression data with field collected hormonal phenotype data to connect regulatory and phenotypic changes following polyploidization events. Development of independent questions and projects utilizing samples and available datasets will be strongly encouraged.

The successful candidate will have the opportunity to be directly involved in field data collection from populations of frogs across the eastern United States, and to participate in broader impacts initiatives aimed at training high school, undergraduate, and graduate students in Mississippi. The post doc will be expected to present at scientific conferences and lead the preparation of manuscripts for publication in high-quality peer-reviewed journals.

Required Qualifications: PhD in bioinformatics, evolution, neurobiology, genomics, endocrinology, or related fields Demonstrated experience with the assembly and

analysis of transcriptomic data Ability to work independently Demonstrated experience with peer-reviewed publishing

Preferred Qualifications: Experience working with both long and short read RNAseq datasets Experience with extraction of RNA from tissue samples Strong writing skills

Applicants should email the following to Susan Balenger (sbalenge@umn.edu) with header: Polyploid Postdoc. Review of applications will begin on January 31st and continue until the position is filled. 1. Cover Letter, 2. CV with names and contact information of three references, and 3. 1-page statement of research interests.

Susan Balenger (https://susanbalenger.weebly.com/) Researcher University of Minnesota - Twin Cities Ecology, Evolution, and Behavior Saint Paul,MN 55108

Susan Balenger <sbalenge@umn.edu>

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UNebraska Lincoln PopulationEvolution

Post Doctoral Research Associate - Population Biology School of Biological Sciences University of Nebraska-Lincoln

The goal of the Population Biology-POE Postdoctoral Fellowship is to stimulate synergistic interactions between faculty and postdoctoral scholars broadly interested in the area of Population Biology. We are seeking applicants who have recently completed, or will soon complete, their Ph.D. and who conduct cutting-edge research related to faculty research areas in the Ecology, Evolution, and Behavior (EEB) section in the School of Biological Sciences (https://biosci.unl.edu/research-areas). POE postdoctoral fellows pursue a research program under the sponsorship of an EEB faculty member and are expected to enhance graduate education, serve as a model for graduate students in career development, and promote interactions among faculty at UNL. While in residence, the postdoctoral fellow is expected to lead a seminar, symposium, or outreach project that will appeal to Population Biologists across campus.

A Ph.D. in Biological Sciences or a related field is required.

Review of applications will begin March 3, 2023 and will continue until the position is filled. To view details of the position and create an application, go to https://employment.unl.edu, requisition F_220252. Click "Apply for this Job" and complete the information form. Attach the following documents:

1. Curriculum vitae. 2. A one-page description of previous and current research. 3. A description of your proposed research (2-3 pages).

In addition, please arrange for three (3) references to email letters of recommendation to ccressler2@unl.edu.

As an EO/AA employer, the University of Nebraska considers qualified applicants for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See https://www.unl.edu/equity/notice-nondiscrimination . Colin Meiklejohn <cmeiklejohn2@unl.edu>

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Unorthcarolina Three Speciation

The Matute lab (dm-incompatibilities.org) at the University of North Carolina at Chapel Hill is looking for three postdoctoral fellows for research in Evolutionary genetics.

Position 1. The Postdoctoral Research Associate will work in the field of speciation genetics identifying alleles in hybrid incompatibilities through the use of multiple genetic mapping approaches. The postdoc will be encouraged to develop independent lines of research within the broader goals of the project and the lab. Strong wet lab and fly genetics are essential. Strong coding skills are desired. unc.peopleadmin.com/postings/247130 < https://t.co/SPq7eIcYCp >

Position 2. The postdoctoral research associate will work in the field of medical mycology through the lens of evolutionary biology. In particular, the candidate study demographic events and dissect evolutionary processes in Histoplasma and other fungi using population genetics. Experience in bioinformatics (in any organism) is essential. unc.peopleadmin.com/postings/247321 < https://t.co/YzmonLohg8 >

Position 3. The postdoctoral research associate will work in the field of medical mycology with an empha-

sis on Histoplasma. In particular, the project aims to functionally validate the involvement of candidate genes in interspecific differences in virulence and antifungal resistance. The postdoc will be encouraged to develop independent lines of research within the broader goals of the project and the lab. The ideal candidate will be proficient in molecular genetics and will be able to work with mice. Management of BSL2+ pathogens is considered a plus but it is not strictly required. unc.peopleadmin.com/postings/247330 < https://t.co/-eAwBoKJsij >

The ideal candidates for these three positions will be creative, enthusiastic, motivated by experimental and analytical challenges, and be proficient in a range of bioinformatics and molecular techniques. Review of applications will start at the end of January but will continue until the positions are filled. The appointment could begin as early as March 2023 and can last for up to five years, depending on satisfactory progress. Former veterans, and individuals reentering the workforce are encouraged to apply. Compensation will follow the NIH scale. Interested applicants should send a CV, brief statement of research interests (one page), and contact information for three references to dmatute@email.unc.edu. Feel free to email dmatute@email.unc.edu for informal inquiries.

Required Qualifications: PhD in relevant field (evolution, genetics, microbiology, computational biology, etc.).

The University of North Carolina at Chapel Hill is an equal opportunity, affirmative action employer and welcomes all to apply regardless of race, color, gender, national origin, age, religion, genetic information, sexual orientation, gender identity or gender expression. We also encourage protected veterans and individuals with disabilities to apply.

dmatute@email.unc.edu

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UParis Saclay RailwayBiodiversity

Postdoctoral position 24 months in landscape ecology in France: connectivity patterns and potential role of the French railways system for biodiversity

Location: University Paris Saclay / CentraleSupelec, Gif sur Yvette, France Contract: 2 years full time Salary: Monthly gross salary of 3000 EUR including: - participation of the employer to the public transportation costs - social security - retirement plan (for European candidates only) Closing date for application: 31 january Starting date: as soon as possible but flexible Context:

MINERVE is a large project led by SNCF Réseau (the French national railway system). It aims to create digital twins for the monitoring and construction of railway infrastructures, with the objective of performance and adaptation to the requirements of climate and ecological transitions. The main scientific partner of the project is CentraleSupélec, Paris Saclay University. The project includes a two-years postdoc position on the impact and possibly the benefits for biodiversity of the French railway system.

Linear railways infrastructure is associated with negative impacts on biodiversity, including the creation of a barrier to species movement and direct mortality of fauna. However, railways can also be designed and maintained to help to restore ecosystem function for a part of the flora and fauna. The French rail network consists of 30,000 km of track managed by the SNCF, the maintenance of which could be optimized to meet safety and regulatory constraints, but also to promote landscape connectivity and biodiversity.

The French railway is home to a variety of flora and fauna and provide a green corridor that can serve as a connector between different green zones of the landscape, or even protected areas, particularly in areas of intensive agriculture. The postdoc will study the complementarity of the railways with the other existing green corridors and protected areas for global landscape connectivity. The postdoc will also take into account the various regulatory protection perimeters in order to select sections with high biodiversity stakes, which can then be prioritized for biodiversity inventories as well as for receiving different types of maintenance. The postdoc will also work on the potential of the railways for biodiversity in a context of climate change, where species ranges are rapidly shifting northward in Europe, making their role as connectors particularly valuable.

Qualifications:

The ideal candidate will have a PhD in landscape ecology or environmental geography. Solid knowledge and demonstrated experience in statistical modelling, data management and GIS, Geographic Information System are key to the project. Written and oral communication skills in English are necessary, the ability to speak French would be appreciated although it is not a requirement.

The postdoc will be supervised by Fernando Fernando Ascensão, Centre for Ecology, Evolution and Environmental Changes, Université de Lisbonne, Carmen Bessa

Gomes and Emmanuelle Baudry, Ecologie, Sytematique et Evolution, Paris Saclay University, in collaboration with Anne Petit and Laura Clevenot, from the SNCF

Application instructions:

Applications must be sent no later than 31 of January. Please include:

- A cover letter - Your curriculum vitae - The names and contacts of two academic referees

Send to emmanuelle.baudry@universite-paris-saclay.fr; fjascensao@edu.ulisboa.pt

Carmen Bessa-Gomes <carmen.bessa-gomes@universite-paris-saclay.fr>

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UppsalaU ExperimentalEvolution

Postdoc scholarship in medical microbiology with a focus on experimental studies of evolution of codon usage bias and tRNA content

At the Department of Medical Biochemistry and Microbiology, Uppsala University, Sweden.

Time-limited postdoc scholarship (stipend) 100% during 2 years beginning as soon as possible.

Research group: Dr. Joakim Näsvall's research group is part of the Department of Medical Biochemistry and Microbiology and we work on bacterial genetics and evolution with a focus on evolution of new genes and evolution of the translation apparatus and the genetic code. More information can be found at: https://www.imbim.uu.se/research-groups/infection-and-immunity/nasvall-joakim/ Research project: The project is aimed at understanding the selective forces leading to codon usage bias and its co-evolution with the composition of the tRNA pool. The usage of synonymous codons varies between different organism and between different sets of genes in the same organism. What drives the evolution of codon usage bias and tRNA content is largely unknown, although several hypotheses exist. We have generated bacteria with genome-wide non-optimal codon usage that grow poorly and have pleiotropic phenotypes (temperature sensitivity, salt dependence, etc.). By evolving these bacteria to higher fitness in laboratory conditions we intend to find clues to what selective forces drive the evolution of codon usage bias and tRNA content.

Qualifications: We are looking for an outstanding postdoc that has a PhD in microbiology, genetics, evolutionary biology or similar where your PhD work was focused on experimental work with bacterial model systems. Experience of work with bacterial genetics, experimental evolution, genome sequencing, and reporter gene systems is a merit. We want a person with high creativity, willingness to implement cutting edge-new methods, the ability to independently plan experiments as well as excellent analytical and practical skills. You should have high skills in written and spoken English and the ability to work in a multi-disciplinary team.

Instructions for application: Please send your application by email with the subject line "postdoc application" to Joakim Näsvall (joakim.nasvall@imbim.uu.se) and include in your application, compiled in a single pdf file, the following:

- A short letter that describes your research interests and a motivation for why you would be suitable for this position (maximum 2 pages) - Curriculum vitae including publication list - Copy of proof of passed PhD exam - Names and email addresses to three references

Incomplete applications will not be considered.

Joakim Näsvall Dept. of Medical Biochemistry and Microbiology Uppsala University BMC D7:3 Husargatan 3, Box 582 75123 Uppsala, Sweden Phone: +46-18-4714366 Cell: +46-70-6972236

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

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UppsalaU SomaticMutations

Postdoctoral research position in the role of somatic mutations in insect ageing

A position is available in Matthew Webster's lab at Uppsala University, Sweden to investigate the role of

somatic mutations in ageing using insect model systems.

Mutations in somatic cells may be important drivers of ageing. If this is true, a relationship between somatic mutation rates and longevity in multicellular organisms is expected. Social insects represent promising models to investigate this relationship, due to the existence of castes that differ greatly in longevity despite sharing the same genome. Other promising model systems are represented by experimental lines of insects that have evolved large differences in longevity.

In this project, we aim to address the role of somatic mutations in ageing by measuring somatic mutation rates in honeybee castes and experimental evolution lines of seed beetles. Quantifying somatic mutations on a genome scale with high fidelity is experimentally challenging and we plan to optimise new methods for library prep for high-throughput sequencing to achieve this. The research involves development and implementation of lab protocols and bioinformatic/statistical analyses of next-generation sequence data, in addition to some experimental work with honeybee colonies.

The project will be conducted in collaboration with Prof. Göran Arnqvist (Evolutionary Biology Centre, Uppsala University) and Dr. Anja Mezger (Head of Applications Development, National Genomics Infrastructure, SciLifeLab, Stockholm). The position is available for two years with possibility for extension.

To be eligible for this position, applicants must hold a Ph.D. degree or a foreign degree equivalent to a PhD degree in a relevant field. We are interested in hearing from candidates skilled in bioinformatics/statistics, molecular genetics wet lab work, or both. Proficiency in production and/or analysis of next-gen sequencing data is necessary, as is a strong interest in evolutionary genetics. Excellent communication skills, a high level of motivation and good spoken and written English is required.

Other research in Matthew Webster's group is focused on evolutionary genomics and population genomics, primarily in bees, addressing questions including the genetic basis of local adaptation and species divergence, and the evolution of mutation and recombination rates. We benefit from collaboration with the groups of Profs. Kerstin Lindblad-Toh and Leif Andersson in the same department and with the genome sequencing platform at SciLifeLab, housed in the same building. Uppsala University is the oldest in Scandinavia and the city of Uppsala is a vibrant college town with beautiful surroundings conveniently situated 40 minutes by train from Stockholm.

To apply for the position, send a cover letter and CV (including publication list and contact details of two references) as a single pdf to Matthew Webster: e-mail matthew.webster@imbim.uu.se. Informal enquires are welcome. More positions will also be advertised in future and enquiries about additional opportunities are also welcome. Review of applications will start 24 Feb 2023.

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

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USouthBohemia LASTCALL ButterflyMeiosis

Laboratory of Chromosomics (University of South Bohemia, Czechia) is looking for excellent & highly motivated candidates for a Postdoctoral position to join a project newly funded by the Czech Science Foundation.

Project: Mechanistic basis and evolution of meiotic idiosyncrasies in moths and butterflies (Lepidoptera) as a part of

Abstract: Evolution of meiotic sex still represents one of the most intriguing evolutionary mysteries. Meiosis is highly conserved in eukaryotes. Yet, its modifications are common and can provide important insights into the evolution of sex. Moths and butterflies (Lepidoptera) with their holocentric chromosomes are great candidates for study of modified meiosis. Their chromosomes lack localized centromeres and thus should not be compatible with conventional meiotic segregation as they cannot control separation of sister chromatids. Alterations of meiosis, such as absence of recombination and inverted meiosis, can resolve the issue and were previously reported in Lepidoptera. However, our understanding of lepidopteran meiosis stems mainly from ultrastructural studies limited to only a handful of species. In the present project, we will employ immunofluorescence, Oligopaint fluorescence in situ hybridization, and linked

reads and single-cell sequencing to holocentric chromosomes and variation in kinetochore coverage in Lepidoptera along with their meiosis and its modifications including female achiasmatic meiosis, male recombination landscape, and inverted meiosis.

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE. The Laboratory of Chromosomics combines cytogenetic and genomic approaches to study drivers of karyotype and sex chromosome evolution. It is a part of the Department of Molecular Biology and Genetics which provide a vibrant scientific environment due to its close collaboration with research institutes of Biology Center of Czech Academy of Sciences. The Faculty of Science represents an equal opportunity employer as certified by the European Commission's HR Excellence in Research Award.

This position will provide - full time position for 3 years - support for career development and mentoring - international team and collaborators with opportunities to travel - opportunity to mentor BSc & MSc students - flexible working time, 5 weeks of vacation, full health insurance - a meal allowance, a discounted mobile phone tariff with a contract operator, and university kindergarten - administrative support with relocation & settling in the Czech Republic - work-life balance in a middle-sized university city offering low cost of living and high quality of life

Requirements - a PhD degree in relevant field of Life Sciences or Bioinformatics - a career level-appropriate publication track record - strong interest in the research question - flexibility and the ability to work both independently and in a team are essential - fluency in English - skills and experience we are looking for include: - experience in molecular cytogenetic and standard molecular biology techniques and/or next generation sequencing and data analysis is highly appreciated - knowledge of widefield and confocal fluorescent microscopy and image data analysis is a plus but not required - preferred starting date is spring 2023 but it is negotiable

How to apply

To apply please submit your application via e-mail to jobs@prf.jcu.cz by January 6, 2023. The application should be sent as a single pdf-document and include: - CV including a complete list of your publications - a letter detailing your motivation to apply with a concise summary of your previous research achievements - contact information of two referees

Informal inquiries are welcome. For further information, please contact the principal investigator Petr Nguyen (petr.nguyen@prf.jcu.cz).

For more information, please visit the following websites: Laboratory of Chromosomics: https://bit.ly/3HtV7f4 Petr Nguyen, principal investigator: https://orcid.org/-0000-0003-1395-4287 https://bit.ly/3uP5ouK Welcome guide for international staff: http://bit.ly/3uM3P0L ÃeskÃ© BudÃ: https://www.budejce.cz/en/ Petr Nguyen <nguyep00@prf.jcu.cz>

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USouthernCalifornia PopGenetAndGenetEpidemiology

Postdoc position available in University of Southern California (USC) in Los Angeles, CA.

The Chiang lab < http://chianglab.usc.edu/ > utilizes cutting-edge analytic tools to address questions at the intersection of human medical and population genetics. In particular, we have a strong interest in *using genomic data to understand the evolution and architecture of complex traits and the history of diverse human populations.* These insights will be critical for future medical genetics studies and in practicing personalized medicine. The successful candidate will have substantial input in the nature and the direction of the ongoing research projects within the lab and will be encouraged to explore projects that broadly fit within the lab's research interests and funded R35 and R01 grants. These goals include learning about demographic history or natural selection from genetic variation data, or understanding genetic architecture and evolutionary history of complex traits in diverse populations. *Opportunities are available for both method development as well as analysis of large-scale genotyping and next-generation sequencing data in humans from diverse populations. *

The candidate can be funded through multiple sources:

(1) *R01:* on the genetic history, statistical genetics and genetic epidemiology of metabolic traits and PRS of Pacific Island populations (Native Hawaiians, Samoans). Will have access to newly generated whole genome sequencing data and genome-wide array data.

(2) *R01:* on method development for statistical and population genetic applications based on the ancestral recombination graph (e.g. Fan et al. AJHG 2022 < https://www.sciencedirect.com/science/article/pii/-S0002929722001124 >).

(3) *R35:* broadly on the consequence of natural selection and demography on evolution of human traits (e.g. Chen et al. AJHG 2020 < https://www.sciencedirect.com/science/article/pii/-S0002929720301610 >), including expanding the framework to other population datasets such as Taiwan Biobank.

(4) *Unrestricted funds:* there is room for postdocs and scientists to explore research topic broadly consistent with the research direction of the lab, through either method development or empirical explorations.

The candidate will also have access to data in Multiethnic Cohort (https://uhcancercenter.org/mec < https://t.co/Mo7sQBoYuU >), including new GWAS and WGS data being generated, and multi-omic data in pipeline. Broad mentorship across different fields (epidemiology, statistics, population genetics, etc)

Postdoc position is for *1-3 yrs depending on the career goals of the candidate*. Position is extendable at the end of the initial appointment. Salary starting *above the NIH postdoc scale (step 7; > $66,600 per year)*, commensurate with experience and expertise. While postdocs are considered a transient phase of one's career, we also value stability. There will be opportunities to transition to staff scientist or faculty position within the Center for Genetic Epidemiology at USC for the promising scholars.

Because of the various ways the position can be funded, *start date is flexible throughout 2023*, for both types of positions. Some level of working from home is possible, and completely remote options (within continental U.S.) is negotiable based on the candidate's situation (such as due to family or two body situations). We are actively establishing a vibrant and respectful culture in the research group. See brief notes on how we are working towards this goal here: http://chianglab.usc.edu/-resources.html < https://t.co/bayzRtcLJN >

Candidates should have a Ph.D. in genetics, computer science, bioinformatics, computational biology, or a related field. Proficiency in one or more programming languages (e.g. python, perl, C++, R, etc.) and in Unix-based computing environment is desirable. Experience in conducting human genetics or population genetics research and analyzing large genetic datasets is a plus.

Interested candidates should submit a CV with contact information for 2-3 references. Reference letters are accepted, but not required at this stage. Material should be directly submitted to Charleston Chiang at *charleston.chiang@med.usc.edu*.

Charleston W. K. Chiang, Ph.D. Assistant Professor Population and Public Health Sciences Center for Genetic Epidemiology Keck School of Medicine, USC http://chianglab.usc.edu Twitter: @CharlestonCWKC

Charleston Chiang <charleston.chiang@gmail.com>

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UToronto Phylogenetics

Posting Date: December 16, 2022 DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY Faculty of Arts and Science University of Toronto JOB POSTING - POSTDOCTORAL FELLOW

The Department of Ecology and Evolutionary Biology at the St. George campus of the University of Toronto invites applications for a Postdoctoral Fellowship in the Parins-Fukuchi lab.

Area of Research: Computational evolutionary biology and phylogenetics Description of duties: We are looking for a Postdoctoral Researcher to partner in an NSF-supported, multi-institution project exploring the origins of phenotypic innovation across angiosperms throughout the Cretaceous period. The project is highly integrative, seeking to link temporal and taxonomic scales using diverse large-scale data sources including genomic, fossil, and high-throughput phenotypic data. As a postdoc on this project, you will have the opportunity to work with a collaborative team of faculty, postdocs, and students around the continent addressing integrative and timely questions about plant evolution, phylogenomics, and paleobiology. You will be part of the Parins-Fukuchi research group at UofT, which focuses on expanding our understanding of the patterns and processes underlying morphological innovation across a broad range of study systems through the development of novel computational and analytical approaches.

Salary: $50,000 to $56,000 CAD Required qualifications: Candidates should have a Ph.D. in evolutionary biology, computational biology, earth sciences, or a related field prior to initiating their appointment. Experience working with some combination of: morphological trait data (quantitative and/or qualitative), genomic sequence data, computational biology/bioinformatics tools (including code development using a general-purpose programming language such as Python, Java, C++, etc) is required. Proficiency in phylogenetics and developing/implementing new models and methods is preferred.

Application instructions All individuals interested in this position must submit a CV, brief statement of interest and past experience, and contact information for three references to Professor Tomomi Parins-Fukuchi (tomo.fukuchi@utoronto.ca) by the closing date.

Closing date: February 15, 2023. This position will remain open until filled, however we will begin to review complete applications after February 15, 2023.

Supervisor(s): Tomomi Parins-Fukuchi

Expected start date: June 1, 2023, with flexibility for a later start date.

Term: 12 months, renewable for another 12 months subject to performance, suitable research progress, and available funding.

FTE: 100%. Depending on research timelines, requirements, travel, etc, evening and/or weekend work may be required.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, and the School of the Environment. The University owns a nearby field station dedicated to ecological and evolutionary research (the Koffler Scientific Reserve, www.ksr.utoronto.ca). The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Genomic analyses are supported by a number of high-performance computing resources, multi-lab bioinformaticians, as well as staff at the Centre for the Analysis of Genome Evolution and Function. The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee's research and training and the needs of the supervisor's research program may require flexibility in the performance of the employee's duties and hours of work Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.

This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.

Thanks! tomo

C. Tomomi Parins-Fukuchi (he/him) Assistant Professor Department of Ecology and Evolutionary Biology University of Toronto 3049 Earth Sciences Centre

Tomomi Parins-Fukuchi <tomo.fukuchi@utoronto.ca>

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YaleU CancerEvolution

The Townsend Lab at Yale University School of Public Health in New Haven, Connecticut is seeking one or more computational biology Postdoctoral Associates to join our team. We have an excellent history of placing postdoctoral candidates on their ideal career trajectory. Our research profile is highly productive, and spans cancer, infectious disease, and fungal genetics.

The appointed associate will perform analyses of somatic mutation and variant selection, quantifying strength of selection on cancer driver genes, selective epistatic interactions, and temporal evolution of cancer phenotypes associated with somatic genetic alterations, with access to excellent computational resources.

Computational expertise in analysis and data visualization, ideally in R, is not required but would be a plus. We are seeking candidates with a Ph.D. and experience with cancer genomics, bioinformatics, phylogenetics, and/or evolutionary biology. However, experienced candidates interested in a longer-term Associate Research Scientist position, or those with a Master's degree or Bachelor's degree and aligned interests and skills, should apply and would be considered for a corresponding full-time research position.

The one-year appointment is immediately available, has a flexible start date, and is renewable. New Haven is a small, walkable city in the state of Connecticut with a diversity of options for home life, recreation, and entertainment, and excellent transportation access to New York City.

If you are interested in joining our team, please submit your CV and a cover letter outlining your qualifications and research interests to Jeffrey.Townsend@Yale.edu.

"Townsend, Jeffrey" <jeffrey.townsend@yale.edu>

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WorkshopsCourses

CarnegieMellon Qatar Evolution Feb26-27

Dear all,

Registration is now open for a free workshop on evolutionary biology in the Middle East/North Africa Region, 26-27 February 2023.

Evolutionary biology is a central, unifying concept in biology, yet teaching and researching evolution in Muslim countries can be challenging. This two-day free, in-person workshop seeks to create a network of evolutionary biologists, including faculty members and researchers, from the MENA region.

Keynote speakers include prominent evolutionary biologists, experts in the teaching of evolution, and scholars of the culture and history of the study of evolution in the MENA region. Through seminars and panel discussions, participants will increase their understanding of cultural competence, share their own successful approaches to teaching evolution, and provide feedback on course components that have been less engaging or successful.

What you will get out of the workshop: - A stronger network of evolutionary biologists in the MENA region - Lesson plans/class materials that others find successful - Tools and perspectives for dealing with cultural challenges surrounding evolutionary biology - An opportunity to develop or improve, with peer feedback, aspects of your own evolution course

For more information and registration, see: https://sites.google.com/andrew.cmu.edu/evolution-mena/home Best regards, Becky

Becky Cramer, Ph.D Natural History Museum, University of Oslo

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ColoradoStateU GenomicsDiseaseWildlife Jun4-10

Where: Colorado State University What: The 5th Genomics of Disease in Wildlife Workshop When: June 4- June 10, 2023 Website for more information and application instructions:

https://gdwworkshop.colostate.edu Application Deadline: February 17, 2023

Email inquiries: CSU_gdw@colostate.edu

Overview: Title: Genomics of Disease in Wildlife: A Workshop

Location: Smith Alumni Center, Colorado State University, Fort Collins, CO

Dates: June 4 to June 10, 2023

Website: https://gdwworkshop.colostate.edu Application deadline: February 17, 2023.

GDW2023 is an intensive, hands-on workshop focused

on the application of powerful genomic tools to monitor, detect and investigate the role of pathogens within both wildlife and domesticated species. To date, the GDW workshop series has trained 100 researchers of which 25% were international scientists. Post-workshop participant surveys gave high scores for GDW workshops with a cumulative average of 4.7 of 5 for overall scientific value and 4.8 of 5 for overall venue experience.

Why is the workshop needed? Advances in genomic technology now provide an extraordinary opportunity to rapidly assess the impact of disease in wildlife biodiversity, management, and conservation. Wildlife and animal health researchers are uniquely positioned to merge ecological, biological, and evolutionary studies with genomic technologies to generate unprecedented Big Data tools in disease research. The workshop will provide a venue to accomplish this goal, will provide networking opportunities for colleagues from intersecting interests, and will advance genomic tools in wildlife and animal health disease investigations.

How will the workshop address the need? GDW2023 will provide essential training to those with skills and interest in some or all of the following: Wildlife Biology and Ecology, Disease Ecology and Modeling, Evolutionary Biology of Host and Pathogen, Pathogen Surveillance and Discovery, Animal Health and Veterinary Sciences, Genome Science and Bioinformatics, Diseases of Domesticated Species and Livestock

Attendees will conduct analyses of genomic data of both host and pathogen. The course will provide: an overview of current bioinformatics developments and approaches; guidance to implement genomic tools in study design; NGS data analysis and interpretation; and, opportunities for interaction with peers, core faculty, and invited experts.

Workshop Syllabus The workshop will cover a typical workflow commonly used in NGS analyses starting with the initial raw sequence through the final stages of identifying host:pathogen variants linked with disease. Each day of the workshop will cover an essential component of the NGS workflow in succession.

Morning sessions will be a series of instructional lectures and demonstrations that will concisely present the purpose, justification and implementation of the specific workflow unit. Short and exciting flash talks presented by CSU faculty will present some of their ongoing investigations using genomic tools in both host and pathogen.

The afternoon sessions will be computer intensive labs in which attendees will perform analyses with genomic data for each workflow topic.

Evening plenary lectures from invited faculty will conclude each day's activities.Teaching tools will include exercises using NGS data from a range of pathogens and host species.

Participants will learn the importance of integrating NGS data from both host and pathogen in order to better understand current epidemics in wildlife. For the duration of the course, each attendee will be provided with a MacBook Pro computer and peripheral equipment, and prepared genome datasets from several host species and associated pathogens. These datasets will be organized into various files and formats prior to the course, demonstrate key concepts, and be the foundation for computer exercises and teaching tools.

Summary of Workshop Schedule: Optional PreWorkshop Clinic. Sunday June 4, 2023 (10 a.m. to 4 p.m.)

An optional preworkshop clinic preceding the opening reception and activities. The crash course in basic coding skills will introduce conceptions of interacting with UNIX-based (Mac or Linux) platform, command line structure, navigating folders, and reading/writing files. The clinic will emphasize commands and terminology that will be used during GDW2023, and is designed for those with little or no experience in coding.

Day 1 Sunday June 4, 2023 Official Opening of GDW Workshop at 6 p.m.

The workshop begins in the evening of Sunday May 31, 2023 at the Lory Conference Center. A welcome session will introduce faculty and an overview of the workshop. NGS workflow projects for teams will be introduced. An informal welcome reception follows with faculty, staff and participants.

Participants will prepare a short 3-to-4-minute introduction of their

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CzechRepublic Genomics May14-27

Applications for the 2023 Workshop on Genomics are now open!

The 2023 Workshop on Genomics is being held 14-27th of May, 2023 in ÄeskÃ½ Krumlov, Czech Republic. This

is the 12th time the Workshop of Genomics will be held in the Czech Republic, and the second time it will be organised in spring time. For more information, please follow this link:

https://evomics.org/2023-workshop-on-genomics-cesky-krumlov/ Our philosophy is to train participants in the most relevant topics in genomics, in a vibrant, immersive and inclusive environment. The Workshop on Genomics was developed in response to the increasing demand for training on how to effectively analyse and manage data generated by modern sequencing technologies. The Workshop curriculum includes extensive coverage of fundamental techniques required of all studies utilising modern sequencing data.

Deadline for applications is 1st March 2023. Please apply using the following link: https://evomics.org/-apply-workshop-on-genomics-2023/ This year we have officially opened applications for Equal Opportunities Funding (https://evomics.org/bursaries/) through two schemes:

- Scheme 1: All aspects of the workshop will be funded. No registration fee. Accommodation and travel fees will be covered. - Scheme 2: Payment of half the registration fee ($975). Accommodation and travel fees will not be covered.

Applications will be assessed separately from the main application process. Reviews of EO Funding applications will be carried out in partnership with the European Reference Genome Atlas (ERGA) < https://-www.erga-biodiversity.eu/ > initiative.

Deadline for applying to the EO funding will close on 20th January. Please apply for EO funding through the following link: https://evomics.org/apply-to-the-equal-opportunities-funding-2023/ *The Workshop on Genomics 2023 is organised by*:

*Director *Josephine Paris, University of L'Aquila / Marche Polytechnic University, Italy

*Co-Director** (Course Engineer)* Rayan Chikhi, Institut Pasteur, France

Co-Director (Faculty Liaison) Joan Ferrer Obiol, University of Milan, Italy

Lead Developer Guy Leonard, University of Oxford, UK

Head Teaching Assistant Mercè Montoliu Nerín, Uppsala University, Sweden

ÄeskÃ$\frac{1}{2}$ Krumlov Coordinator Daniel Kinzl

*Coordinator *Scott Handley, Washington University, US

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Alexander Suh, University of East Anglia, UK and Uppsala University, Sweden (Soon University of Bonn, Germany)

Emiliano Trucchi, Marche Polytechnic University, Italy

Chris Wheat, Stockholm University, Sweden

evomics workshops <evomics.workshops@gmail.com>

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FridayHarborLab UWashington EvolQuantGenetics Jun4-9

The Evolutionary Quantitative Genetics Workshop for 2023 will take place at Friday Harbor Laboratories of the University of Washington from June 4-9. The workshop will review the basics of theory in the field of evolutionary quantitative genetics and its connections to evolution observed at various time scales. One aim of the workshop is to build a bridge between the traditionally separate disciplines of quantitative genetics and phylogenetic comparative methods. The workshop involves lectures, discussions and in-class computer exercises.

This workshop has been given yearly since 2011, and at Friday Harbor Laboratories since 2017. It was canceled in 2020, and given as an online workshop in 2021 and 2022. It is intended for graduate students, postdocs, and junior faculty.

Information on the subject area, lecturers, costs and application form will be found at: https://eqgw.github.io Cheers

Joe

Joe Felsenstein felsenst@gmail.com, felsenst@uw.edu Department of Genome Sciences and Department of Biology, University of Washington, Box 355065, Seattle, WA 98195-5065 USA

PS: please do not use joe@gs.washington.edu, which is

an alias that some mail systems now mistake as indicating spam.

Joe Felsenstein <felsenst@uw.edu>

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Online Bioinformatics Jan16-20

Dear all,

If you want to boost your bioinformatics skills, there are the last 4 seats available for the online Winter School in Bioinformatics from the 16th to the 20th of January.

Course website: (https://www.physalia-courses.org/-courses-workshops/course68/)

This course will introduce participants to the field of Next Generation Sequencing biology, understanding both the concepts and handling of the data. We will cover a broad range of software and analyses from quality assessment of sequencing runs, through assembling and annotating small genomes, RNAseq and differential gene expression, and phylogenomics with NGS data. Primarily focussed on Illumina data, we will also look at the different requirements and opportunities when utilising long-read data (Nanopore/PacBio). This course will be accompanied by sessions on the use of the Linux command line, and Docker which is the preferred platform for most bioinformatic analyses, as well as software containers, through Docker or Singularity, with a particular focus on best practices for reproducibility.

For more information, please have a look at: (https://-www.physalia-courses.org/courses-workshops/)

Best regards and Happy New Year, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online EnvironmentalMetagenomics Apr17-21

Dear all,

registration is now open for the 3rd edition of the Physalia course: "Environmental Metagenomics".

Dates: (Online), April, 17th-21st

Course website: (https://www.physalia-courses.org/-courses-workshops/environmental-metagenomics/)

During this one week course, attendees will learn state-of-the-art bioinformatic approaches to analyse metagenomic data. We will cover both read- and assembly-based methods, focusing on the strenght of each of these methods depending on the research question. We will use data from both short- (e.g. Illumina) and long-read (e.g. Nanopore) sequencing platforms, as it improves dramatically MAG assembling and binning compared to short-read-only methods.

By completing this course, attendees will: - Understand the basics of metagenomic sequencing and bioinformatic approaches to the analyis of metagenomic data - Be able to plan and execute a metagenomic sequencing project - Have an up-to-date knowledge on the bioinformatic tools and best practices for the analysis of metagenomes - Be able to choose the right tools and approaches to answer your specific research question - Have confidence to learn new methods needed to answer your research question

For more information, please have a look at: (https://-www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online EukaryoticMetabarcoding Apr24-28

Dear all,

registration is now open for the course "Eukaryotic Metabarcoding".

Dates: online, 24-28 April 2023

This course gives an overview of metabarcoding procedures with an emphasis on practical problem-solving and hands-on work using analysis pipelines on real datasets. After completing the course, students should be in a position to (1) understand the potential and capabilities of metabarcoding, (2) run complete analyses of metabarcoding pipelines and obtain diversity inventories and ecologically interpretable data from raw next-generation sequence data and (3) design their own metabarcoding projects, using bespoke primer sets and custom reference databases. All course materials (including copies of presentations, practical exercises, data files, and example scripts prepared by the instructing team) will be provided electronically to participants.

Course website: (https://www.physalia-courses.org/-courses-workshops/course4/)

For more information about our courses and Workshops, please have a look at: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online GeneralisedAdditiveModelsInR Mar20-24

Dear all,

registration is now open for the 3rd edition of the course "Generalised Additive Models In R": (https://www.physalia-courses.org/courses-workshops/-gams-in-r/)

Dates: online, March 20th-24th

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 importing, manipulating (e.g., modifying variables) and visualising data. There will be a mix of lectures, in-class discussions, and hands-on practical exercises along the course.

After completing this course, the participants will:

1. Understand how GAMs work from a practical viewpoint to learn relationships between covariates and responses 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

Here is the complete list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online GenomicPrediction Feb6-10

Dear all,

there are the last seats available for the 3rd edition of the course "GENOME-WIDE PREDICTION OF COMPLEX TRAITS IN HUMANS, PLANTS AND ANIMALS ".

Dates: (online), February 6th-10th

Course website: (https://www.physalia-courses.org/-courses-workshops/course49b/)

â€The course is aimed at students, researchers and professionals interested in learning the different steps and approaches to perform a genomic prediction study. It will include information useful for both beginners and more advanced users. We will start by introducing general concepts of Quantitative Genetics and mixed model theory, progressively describing all steps and putting there seamlessly together in a general workflow. Attendees should have a background in biology, specifically genetics; previous exposure to statistical genetics would also be beneficial. There will be a mix of lectures and hands-on practical exercises using R, Linux command line and custom software. Some basic understanding of R programming and Unix will be advantageous. Attendees should also have some basic familiarity with genomic data such as those arising from NGS experiments.

For more information about our courses, please have a look at: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online IntroToComparativePhylogenetics Mar13-17

ONLINE COURSE -Introduction to eco-phylogenetics and comparative analyses using R (ECPH02)

https://www.prstatistics.com/course/introduction-to-eco-phylogenetics-and-comparative-analyses-using-r-ecph02/ Please feel free to share!

13th - 17th March 2023

In this five day course, we provide an introduction to eco-phylogenetics and comparativeanalyses using R. We begin by providing an overview on the use of phylogenies as a tool forevolutionary biologists and modern techniques to deal with large phylogenies and to incorporate phylogenetic uncertainty in the analyses (day 1). We then cover some of themost relevant eco-phylogenetic analyses and provide examples from the community to themacro-ecological scale (day 2-3). Finally, we introduce a diversity of classic and modern phylogenetic comparative methods to consider the historical relationship of lineages ineco-evolutionary research, including models of trait evolution, analysis of cladediversification and the use of phylogenies in spatial distribution models among others (day 4-5).

Please email any questionstooliver-hooker@prstatistics.com

Upcomingcourses

Stable Isotope Mixing Models using SIBER, SIAR, MixSIAR (SIMM09) February 7th - 10th https://-www.prstatistics.com/course/stable-isotope-mixing-models-using-r-simm09/ Making Beautiful And Effective Maps In R (MAPR04) February 23rd - 24th https://www.prstatistics.com/course/making-beautiful-and-effective-maps-in-r-mapr04/Structural Equation Modelling for Ecologists and Evolutionary Biologists (SEMR05) March 6th - 10th https://-www.prstatistics.com/course/structural-equation-modelling-for-ecologists-and-evolutionary-biologists-semr05/ Introduction to Multi'omics Data Analysis from Microbial Communities (MOMC01) March 10th https://www.prstatistics.com/course/introduction-to-multiomics-data-analysis-from-microbial-communities-momc01/ Movement Ecology (MOVE05) March 13th - 17th https://www.prstatistics.com/course/-online-course-movement-ecology-move05/ A Non

Mathematical Introduction To Ordination Methods Using R (ORDM01) March 27th - 30th https://-www.prstatistics.com/course/a-non-mathematical-introduction-to-ordination-methods-using-r-ordm01/ Quantitative analysis of infrared spectroscopy data for soil and plant sciences (SPEC01) March 27th - 30th https://www.prstatistics.com/course/quantitative-analysis-of-infrared-spectroscopy-data-for-soil-and-plant-sciences-spec01/ Species Distribution Modeling using R (SDMR05) April 25th - 29th https://-www.prstatistics.com/course/species-distribution-modeling-using-r-sdmr05/ Introduction to Bayesian modelling with INLA (BMIN02) May 22nd - 26th https://www.prstatistics.com/course/introduction-to-bayesian-modelling-with-inla-bmin02/ Reproducible and collaborative data analysis with R (RACR02) June 13th - 15th https://www.prstatistics.com/-course/reproducible-and-collaborative-data-analysis-with-r-racr02/ Species Distribution Modelling With Bayesian Statistics Using R (SDMB05) September 4th - 8th https://www.prstatistics.com/course/-online-course-species-distribution-modelling-with-bayesian-statistics-using-r-sdmb05/ Multivariate Analysis Of Ecological Communities Using R With The VEGAN package (VGNR05) September 18th - 22ndhttps://www.prstatistics.com/course/-multivariate-analysis-of-ecological-communities-using-r-with-the-vegan-package-vgnr05/ Oliver Hooker PhD. PR statistics

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Online MicrobialMultiomics Mar10

ONLINE COURSE - Introduction to Multi'omics Data Analysis from Microbial Communities (MOMC01) This course will be delivered live

https://www.prstatistics.com/course/introduction-to-multiomics-data-analysis-from-microbial-communities-momc01/ Delivered by Dr. Melanie Schirmer

Pleasefeel free to share!

Friday 10th March 2023

The aim of this one-day workshop is to provide a thorough introduction to computational approaches for the analysis of microbial community profiles with a focus on metagenomic sequencing data. We will explain how taxonomic and functional profiles are generated from raw sequencing data, introduce different bioinformatic approaches to process sequencing data, followed by multivariate statistical analysis and different visualization techniques. The course will consist of a mixture of lectures and hands-on tutorials. The practical part of the course will focus on the analysis of publicly available multi-omics profiles.

By the end of the course participants should:

1. Be familiar with different workflows involved in the analysis of large- scale multi-omics studies. 2. Understand how to generate taxonomic, functional and strain profiles from metagenomic sequencing data. 3. Be familiar with applying a multivariate statistical framework to generate hypotheses and account for confounding covariates. 4. Be able to use exploratory data visualizations techniques and visualize results from the statistical analysis using R.

Lecture 1 - general Introduction

Lecture 2 - Introduction to microbial community analysis

Practical 1 - Introduction to R and R notebook

Lecture 3 - Metagenomic data visualisation and exploratory analysis with cMD

Practical 2 - Metagenomic data visualisation

Lecture 4 - Statistics for microbial multi-comics data, methods for multi-comics integration

Practical 3 - Multivariate analysis (Linear models and/or MaAsLin2

Lecture 5 - Large-scale multi-omics studies

Conclusions - Discussion, questions, wrap up!

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Online ProteomicsInR Mar27-29

Dear all,

registration is now open for the 4th edition of the course "R/Bioconductor for Mass Spectrometry and

Proteomics".

Dates: (online), March 27th-29th

Course website: (https://www.physalia-courses.org/-courses-workshops/course58/)

The course will cover all levels of MS data, from raw data to identification and quantitation data, up to the statistical interpretation of a typical shotgun MS experiment and will focus on hands-on tutorials. At the end of this course, the participants will be able to manipulate MS data in R and use existing packages for their exploratory and statistical proteomics data analysis.

For the full list of our courses, please have a look at: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online ReproducibilityInBioinformatics Apr3-5

Dear all,

registration is now open for the 2nd edition of the course "Reproducibility in Bioinformatics": (https://www.physalia-courses.org/courses-workshops/-bioinformatics-reproducibility/)

Dates: (online) 3-5 April 2023 This course aims at increasing awareness and introduces strategies on how to improve reproducibility in bioinformatic analyses. Through a mixture of theoretical blocks and hands-on exercises the instructors will guide participants to develop skills to increase reproducibility of bioinformatic analyses and workflows using containers, versioning and virtual environments.

For more information about our courses and Workshops, please have a look at: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online StructuralEquationModelling Mar6-10

Structural Equation Modelling for Ecologists and Evolutionary Biologists (SEMR05)

https://www.prstatistics.com/course/structural-equation-modelling-for-ecologists-and-evolutionary-biologists-semr05/ 6th - 10th March 2023 - ONLINE Day 1 Introduction to SEM Module 1: What is Structural Equation Modeling? Why would I use it? Module 2: Creating multivariate causal models Module 3: Fitting piecewise models Readings: Grace 2010 (overview), Whalen et al. 2013 (example)

Day 2 SEM Using Likelihood Module 4: Fitting Observed Variable models with covariance structures â€Module 5: What does it mean to evaluate a multivariate hypothesis? Module 6: Latent Variable models â€Module 7: ANCOVA revisited & Nonlinearities Readings: Grace & Bollen 2005, Shipley 2004 Optional Reading: Pearl 2012, Pearl 2009 (causality)

Day 3 Piecewise SEM Module 8: Introduction to piecewise approach Module 9: Incorporation of random effects models Model 10: Autocorrelation â€Reading: Shipley 2009; Lefcheck 2016

Day 4 Advanced Topics with Likelihood and Piecewise SEM Module 11: Multigroup models and nonlinearities Module 12: Composite Variables Module 13: Phylogenetically-correlated data Module 14: Prediction using SEM Module 15: How To Reject A Paper That Uses SEM Readings: Grace & Julia 1999, von Hardenberg & Gonzalezâ2013

Day 5 Open Lab and Final Presentations

Please email any questionstooliver-hooker@prstatistics.com

Upcoming courses can be foundhere

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Online TransposableElementDetection Mar20-24

Dear colleagues,

Registration is open for the course Introduction to _Transposable element detection using sequencing data_ - 2nd edition. This course will be held live online (synchronous). Max 20 participants.

Dates: March 20th-24th, 2023. Monday to Friday from 13:00 to 17:00 (Madrid time zone).

Instructor: Dr. Anna-Sophie Fiston-Lavier (Institut des Sciences de l'Evolution de Montpellier, France) & Dr. Emmanuelle Lerat (Universitï¿½ Lyon 1, France)

More information and registration: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/ COURSE OVERVIEW

Transposable elements (TEs) can be major components of eukaryotic genomes. Such repeated sequences, which can make up very large proportions like about 50% of mammalian genomes to more than 80% in the genomes of some plants, can promote various types of mutations, from gene interruption and expression alteration to large-scale chromosomal rearrangements. They can also promote the formation of new genes. Despite their deleterious effects, TEs are currently considered as major actors in genome evolution due to the genetic and epigenetic diversity they can generate.

Even if they have a fundamental biological role, detection and analysis of TE sequences are still technologically challenging. The length and quality of sequenced reads make their detection and annotation difficult (40% detection error). Moreover, the presence of TEs in a genome can also lead to important assembly errors due to rearrangement and the merge of repeats, and to difficulties in the identification of splicing events and in the estimation of gene expression in transcriptomic analyses. It is thus important to be able to identify these sequences in genomic and transcriptomic data.

Since several years, a large number of bioinformatic tools have been developed allowing better identification of TEs in genomes. New tools are released regularly to follow the progress of sequencing technologies but also to answer particular biological questions allowing to go from the TE annotation in assembled or unassembled genomes, to insertion polymorphism detection in natural populations. The result is a particularly large choice for users leading to difficulties in the determination of the best tool(s) to use according to the case.

In this course, we aim at proposing an introduction of selected bioinformatic tools for the detection and analysis of TEs in genomic data (RepeatMasker, DnaPipeTE, T-lex).

See the full program here: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/#program REQUIREMENTS

Participants must have a personal computer (Windows, Mac, Linux) and access to a good internet connection. The use of a webcam and headphones is strongly recommended. Participants should be familiar with Bash and the use of command lines.

All participants must install on their own personal laptop the following softwares: Putty (Windows only) and Filezilla.

You can find more information at https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data or writing to courses@transmittingscience.com

Best regards

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890

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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

Portal Arizona BeeEvolution Aug16-26

BEE COURSE 2023

In partnership with the American Museum of Natural History, Cornell University, and the Southwestern Research Station, we are proud to announce the 23rd installment of The Bee Course. The Bee Course is a ten-day workshop held at the Southwestern Research Station in Portal, Arizona that will run from August 16th through the 26th, 2023. The course is designed to train students in bee identification and systematics, bee biology and ecology, and faunistics and faunal survey work. The course focuses on wild bees (not honeybees) and we accept applications from people with an academic, land-management, policy, or conservation background. For more information on the course, including instructions on how to apply, a list of this year's instructors, and course testimonials from previous offerings, please visit the new and improved course website at www.thebeecourse.org . laurence packer <geodiscelis@mail.com>

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UConnecticut RNAseqAnalysis Feb13-16

The Computational Biology Core at the University of Connecticut's Institute for Systems Genomics is offering a virtual de novo RNA-seq (non-model organism) Analysis workshop.

The workshop will cover basic concepts and walk through strategies and scripts on a high performance computing cluster.

The goal is to familiarize attendees with the basic concepts and approaches for transcriptomic and gene expression analyses. All code required to complete the full analysis will be provided in a public github repository, and session recordings will be available to all participants after the workshop.

Dates: February 13-16, 2023 (4 days)

Time:

Day 1: 8:30am - 12:00pm (EST)

Day 2-4: 9.00am - 12.00pm (EST)

Location: Online (Zoom)

Cost: $350/$483 USD for UConn affiliated/External attendees.

Workshop schedule:

Day 1: Introduction to Linux and high performance computing.

Day 2-4: Introduction high-throughput sequencing, and RNA-seq experimental design. Data Analysis: raw reads (fastq), read quality control, transcriptome assembly, filtering contigs and clustering, EnTAP annotation, Kallisto Indexing and feature quantification, introduction to R, DE analysis and visualization (DESeq2) GoAnalysis, Q&A.

Registration:

To register, please follow this link:

https://forms.gle/1JdErFGtwcTYRKiEA Other upcoming workshops:

Virtual single cell RNA-seq March 6-9, 2023

Workshop FAQ:

Who should attend?

Anyone who wants to learn the fundamentals of transcriptomics and RNA-seq analyses.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of the workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own computer and to install a few applications. We will send you details of software and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own

datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is $350/$483USD for UConn affiliated/External attendees.

How do I pay?

The fee is due at the time of registration. UConn affiliates can use KFS accounts. The only other means of payment we currently accept is credit card. Due to some complications we cannot accept international wire transfers at this time.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

For our other currently scheduled workshops, see here:https://bioinformatics.uconn.edu/cbc-workshops/ "Nahom, Mia" <mia.nahom@uconn.edu>

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UMassBoston PhylogeneticComparativeMethodsinR Mar2-5

Dear colleagues.

Luke Harmon & I will be offering a graduate/postdoctoral level phylogenetic comparative methods in R workshop at the University of Massachusetts Boston from March 2nd through 5th, 2023 (four full workshop days).

Admission is limited to about 15 participants. Applications are welcome from all career stages, but we anticipate that most accepted applicants will be early career researchers (ECRs): graduate students & postdoctoral scholars.

We are very fortunate to be able to offer fairly generous participant support to accepted applicants. Air travel & hotel lodging in Boston will be fully covered for all (non-local) workshop participants. Our travel budget is finite; however, non-U.S. ECRs are nonetheless encouraged to apply & will be considered for travel support.

The application deadline is Friday, January 20th. More information and an application form can be found at: http://www.phytools.org/umb2023/ . Please don't hesitate to contact Luke or I with any questions.

Thanks everyone! All the best, Liam

Liam J. Revell Professor of Biology, University of Massachusetts Boston Web: http://faculty.umb.edu/liam.revell/ Book: Phylogenetic Comparative Methods in R < https://press.princeton.edu/books/phylogenetic-comparative-methods-in-r > (/Princeton University Press/, 2022)

"Liam J. Revell" <liam.revell@umb.edu>

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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

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