E v o l D i r

December 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

Belgium MolluscGenomics May28-31

Hello all,

I'm excited to announce that registration is now open for our Workshop to Establish State-of-the-Art Mollusc Genomics:

https://meetings.embo.org/event/24-mollusc-genomics
This 3-day meeting (plus an excursion day at the end) will be held 28-31 May 2024 in beautiful Namur, Belgium. Talks will also be streamed.

We aim to bring together researchers from diverse fields of study who use whole-genome sequencing of molluscs. We invite presentations (oral or poster) that share work that is completed, ongoing, or even hindered by some of the challenging issues that come with molluscan systems. This will create an opportunity to exchange ideas and experiences, learn more about state-of-the-art methodology, and build collaborative networks for the future. We especially encourage presentations from students and early career researchers.

The meeting is supported by EMBO and we have received funds to support both travel and childcare grants (primarily for Europeans).

In-person registration is limited to 50 people, and will favor participants who contribute a talk or poster. So register now!

More details are on the website, and we're glad to answer any questions.

Best,

Alice Dennis and Kara Layton

Alice Dennis alice.dennis@unamur.be

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

Alice Dennis <alice.dennis@unamur.be>

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CIGENE FishRecombination Nov22

Hi all,

A reminder that the next seminar of the CIGENE Autumn series takes place next week, Wednesday 22nd November, 12:00-12:40.

Speaker: Marie Raynaud, University of Montpellier

Title: Fine-scale recombination patterns in salmonid fishes support PRDM9-directed hotspot location

Abstract: Recombination hotspots are mainly regulated

by the rapidly evolving PRDM9 protein in primates and mice, which has been repeatedly lost in animals and whose role remains largely unknown outside mammals. We recovered full-length PRDM9 protein in salmonid species and identified a complex duplication history of the protein in this group, with differential retention of functional paralogs. We reconstructed population-level recombination landscapes in populations of coho, rainbow and Atlantic salmon, which revealed that recombination hotspots are mainly located away from promoters and evolve rapidly between closely related species and populations, as observed in mammals with a functional Prdm9, patterns not found in species that have lost the protein. Taken together, our results suggest that PRDM9 regulated recombination hotspots in the common ancestor of vertebrates.

Zoom link: https://nmbu.zoom.us/j/67064421833 Hope to see you there.

More information on upcoming talks in the Autumn series is available on the CIGENE website < https://-cigene.no/cigene-seminar-series/ >.

Kind regards,

Junsoung Kwak

Junsoung Kwak <junsoung.kwak@nmbu.no>

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Lausanne Switzerland ConservationGenetics Aug28-30

Subject: Conference on Conservation Genetics, Lausanne, August 28-30, 2024

Dear all,

We are thrilled to announce the upcoming Conservation Genetics 2024 Conference, where we will explore the crucial question: “How can research support pragmatic conservation policies?”

Mark your calendars for this enriching event! Find preliminary information below; more details about the program and for registration will be circulated in early 2024.

Conference Details:

Date: August 28-30, 2024

Venue: Palais de Rumine, Lausanne, Switzerland (Capacity: 270 people in person)

Thematic sessions:

- Biodiversity assessment through the study of environmental DNA

- Consequences of introgression on adaptive potential and conservation policies

- Inference of population dynamics to identify conservation measures

- Harnessing genetic diversity and evolutionary principles for population resilience and ecological restoration

- Monitoring genetic diversity and effective population size

Format: We’re considering a hybrid format, encouraging international colleagues to join virtually while welcoming European attendees in person.

Organizing committee: Nadir Alvarez (Naturéum Lausanne), Isabel Blasco-Costa (Geneva Natural History Museum), Mathias Currat (University of Geneva), Luca Fumagalli (University of Lausanne) and Yamama Naciri (Conservatory and Botanical garden Geneva), with the support of Felix Gugerli, Rolf Holderegger, Deborah Leigh, and Gernot Segelbacher

Additional Considerations:

1) Sessions of posters will be incorporated into the schedule.

2) We are also planning a 6th session focusing on “How to federate research assessing genetic diversity, from populations to ecosystems, among different institutions in Switzerland and beyond and establish connections with other stakeholders (policy makers, NGOs, etc.).” This session will take place in the form of a workshop on current and future perspectives in genetic diversity assessment in Switzerland (collaborative projects, communication portal, elaborating on a national association, etcÂ)

We look forward seeing you in Lausanne!

Best regards,

The organizing committee

Nadir Alvarez <nadir.alvarez@gmail.com>

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London Speciation Apr11

Second announcement:*Perspectives on Speciation*

A one-day interdisciplinary symposium examining how the process of speciation is viewed from a diversity of disciplines.

Linnean Society of London, 11 April 2024

Supported by the Integration of Speciation Research network of ESEB, by Oxford University Press and by the Company of Biologists

Accompanied by a Special Issue of the Evolutionary Journal of the Linnean Society: https://-academic.oup.com/evolinnean/pages/perspectives-on-speciation Attendance is possible in person or online - registration is required and in-person places are limited.

Details and registration at: https://-www.eventbrite.com/e/perspectives-on-speciation-hybrid-meeting-tickets-728342330517?aff=-oddtdtcreator Roger Butlin

Professor of Evolutionary Biology Ecology and Evolutionary Biology School of Biosciences The University of Sheffield

Guest Professor Marine Sciences University of Gothenburg

r.k.butlin@shef.ac.uk

https://littorina.sites.sheffield.ac.uk/ Roger Butlin <r.k.butlin@sheffield.ac.uk>

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Madrid FloralPolymorphismsNatSel Jul21-27

Dear colleagues, We are delighted to invite you to participate in the symposium entitled "FLORAL POLYMORPHISMS AS A RESEARCH TARGET FOR NATURAL SELECTION" within the 2024 IBC (International Botanical Congress) that will be held in Madrid from 21st to 27th July 2024.

*Proposed Symposium **Abstract*: Phenotypic variation within populations is a basic requirement for natural selection, and provides the machinery for evolution to occur. The selection and maintenance of floral polymorphisms in plant populations, including discrete variation in colour, shape, phenology, sex expression, self-compatibility or the setting of sex organs, among others, may depend on relative morph fitness, mating patterns and the genetic architecture underlying these polymorphisms. Hence, floral polymorphisms provide plant biologists a unique opportunity to integrate the ecology and mechanics of natural selection to plant genomics. Understanding the mechanisms underpinning the evolution of floral polymorphisms will help us to understand the rise of plant diversity as well as its conservation. This symposium will facilitate communication among botanists and evolutionary biologists interested in the topic of floral and plant polymorphisms, a large and highly active community (11800 articles published since 2012). We aim to attract interdisciplinary researchers from different areas and with different interests, to discuss how plant and floral polymorphisms are maintained in natural populations. Evolution will be the core concept linking the symposium, providing a global view from and for all participants. < https://ibcmadrid2024.com/-index.php?seccion=scientificArea&subSeccion=-detailSymposiums&idCom=MTMz > Speaker 1: Tanja Slotte (tanja.slotte@su.se) Department of Ecology, Environment and Plant Sciences (DEEP). Stockholm University. 106 91 Stockholm. Sweden. Tentative talk title: Distyly as a model for studying convergent evolution - insights from genomic studiesSpeaker 2: John Pannell (john.pannell@unil.ch) Department of Ecology and Evolution. Faculty of Biology and Medicine, University of Lausanne. Rue du Bugnon 21 - CH-1011 Lausanne. Switzerland. Tentative talk title: Responses to natural selection on a gender polymorphism under field and experimental conditionsSpeaker 3: Monserrat Arista (marista@us.es) Departamento de Biología Vegetal y Ecología. Facultad de Biología, Universidad de Sevilla. Avda. Reina Mercedes sn. 41012. Sevilla. Spain. Tentative talk title: Flower colour polymorphism and plant speciation

Abstract submission deadline for *oral presentations* in symposia: *30th November 2023.* Abstract submission deadline for *posters*: 1st February 2024.

Please find all the necessary information regarding abstract submission on the conference website: https://-ibcmadrid2024.com/index.php We are looking forward to receiving your submissions for talks and posters! If you have any questions about the symposium, please contact any of us (Violeta Simón, violetasp@us.es ; Mo-

hamed Abdelaziz, mabdelazizm@ugr.es; Bruce Anderson, banderso.bruce@gmail.com). Feel free to spread the word to interested people.

All the best,

Violeta, Moha and Bruce

Mohamed ABDELAZIZ MOHAMED PhD Room #8, Third Floor - Biological Building <mabdelazizm@gmail.com> Department of Genetics <mabdelazizm@ugr.es> < http://ugr.es/ > Faculty of Sciences

Campus Fuentenueva University of Granada Granada, Spain, 18071 *tel:* +34 958 246317 http://-www.biochangenet.org *fax:* +34 958 244073 http://-www.viajarpormarruecos.blogspot.com/ "FELIX QUI POTUIT RERUM COGNOSCERE CAUSAS"

mabdelazizm MOHAMED_ABDELAZIZ_MOHAMED <mabdelazizm@go.ugr.es>

Madrid IBC2024 EcoEvoRearEdgeClimateChange Jul21-27

Call for Abstracts. Symposium "Ecological and evolutionary dynamics at the rear edge under climate change". IBC 2024 (XX International Botanical Congress), July 21st - 27th 2024, Madrid, Spain. Deadline November 30th 2023.

Dear Colleagues,

We are pleased to invite you to participate in the symposium "Ecological and evolutionary dynamics at the rear edge under climate change" as part of the 20th International Botanical Congress conference that will be held in July 2024, in Madrid, Spain.

Symposium title: Ecological and evolutionary dynamics at the rear edge under climate change.

Symposium abstract: Understanding the factors that shape species' range limits is a central challenge in ecology and evolutionary research. Resolving this challenge is timely as the distributions of plant species are already disrupted by climate change. Rear-edge populations, located at the lower latitudinal or elevational range limits, are often remnants persisting in former glacial refugia. With their long history of persistence in warmer climates and their ancestral, often diverse gene pool, they may be the most likely source of adaptation to future warming conditions. At the same time, these populations are predicted to experience rates of high extinction, as ecologically marginal rear-edge habitats are expected to become unsuitably warm under climate change. Extinction risk associated with demographic decline may be exacerbated by high genetic drift resulting from population decline and long-term isolation at the rear edge. Recent studies have found variation in the response of rear-edge populations to climate change, calling for a better understanding of the ecological and evolutionary processes at play in this potentially heterogeneous region of the range. In this symposium, we will explore the population dynamics observed at the rear edge and their potential drivers. We will present recent advances in ecological and evolutionary research on warmer range limits and their relation to climate change. Finally, we propose to combine these to create an integrative framework to better predict future population dynamics at the rear edge.

Abstract submission deadline for oral presentations in symposia is November 30th 2023.

For questions about this symposium, please contact Antoine Perrier at cdt9qe@virginia.edu More information can be found on the conference website: https://ibcmadrid2024.com/index.php More details on this symposium: https://ibcmadrid2024.com/-index.php?seccion=scientificArea&subSeccion=-detailSymposiums&idCom=ODc We are looking forward to receiving your submissions for talks!

All the best,

Antoine Perrier & Laura Galloway University of Virginia Department of Biology Charlottesville, VA, USA cdt9qe@virginia.edu

"Perrier, Antoine (cdt9qe)" <cdt9qe@virginia.edu>

Madrid IBC PolyploidyHybridization Jul21-27 Deadline

Dear colleagues, We are delighted to invite you to participate in the symposium entitled *"Polyploidy and homoploid hybridization as evolutionary drivers in Mediterranean plants" *within the 2024 IBC (International

Botanical Congress) that will be held in Madrid from *21st to 27th July 2024*.

The proposed symposium https://ibcmadrid2024.com/-index.php?seccion=3DscientificArea&subSeccion=-3DdetailSymposiums&idCom=MTU3 aims to provide a forum to discuss research about polyploidy and homoploid hybridization in the Mediterranean area. It will offer a unique opportunity to bring together researchers with recognized experience in the topic, able to discuss from different backgrounds and perspectives. Given that these processes are main drivers for speciation and diversification of the Mediterranean flora, this subject is of crucial interest for botanists as well as for evolutionary biologists and ecologists interested in plant evolution. We are therefore convinced that this symposium will attract many participants that will promote an enriching exchange of ideas on the topic.

Abstract submission deadline for *oral presentations* in symposia: *30th November 2023.* Abstract submission deadline for *posters*: 1st February 2024.

Please find all the necessary information regarding abstract submission on the conference website https://ibcmadrid2024.com/index.php?seccion=-3DscientificArea&subSeccion=3DabstractGuidelines We are looking forward to receiving your submissions for talks and posters! If you have any questions about the symposium, please contact any of us (Nï¿½lida Padilla-Garcï¿½a, nelidam@usal.es; Blanca Rojas-Andrï¿½s, rojasabm@usal.es; Montserrat Martï¿½nez-Ortega, mmo@usal.es). We also appreciate any help spreading the word.

All the best,

Blanca, Montse & Nï¿½lida

nelidapg@gmail.com

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

Madrid PlantBiolInvasions Jul21-27

Dear colleagues,

We are pleased to invite you to participate in the symposium: “Biotic Interactions and Biological Invasions”, in the XX International Botanic Congress to be held at Madrid (Spain), July 21st to 27th, 2024.

Symposium ID: 613 / 171

Abstract: Biological invasions constitute natural (and intentional) experiments to assess how the changes in the environment of the native and non-native species spurs ecological and evolutionary change. Invasive plants face environments free from natural enemies of their home range and/or the absence of muatualists (fruit/seeds dispersers, lack of coevolved pollinators, microbiota, etc.). Likewise, native plants might face selection pressures exerted by different parasites, herbivores, pathogens and competitors to which they lack of effective defensive adaptations. This symposium is aimed to document the phenotypic evolutionary change brought about changes in biotic interactions during the invasion by non-native species.

Speaker 1: Montserrat Vilà1,2, Javier Galán-Díaz3, Ingrid M Parker4, Enrique G de la Riva5, “Traits of co-occurring native and non-native plants in invaded communities”

1Doñana Biological Station (EBD-CSIC), Sevilla, Spain; 2Department of Plant Biology and Ecology, University of Sevilla, Sevilla, Spain; 3Department of Pharmacology, Complutense University of Madrid, Madrid, Spain; 4Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, USA; 5Department of Biodiversity and Environmental Management, University of León, León, Spain. montse.vila@ebd.csic.es

Speaker 2: Marc Johnson, “The evolution of plant defences against herbivores in the cosmopolitan invasive plant white clover (Trifolium repens L.)”

Departments of Biology, Evolutionary Biology, and Centre for Urban Environments, University of Toronto - Mississauga, Canada, marc.johnson@utoronto.ca

Speaker 3: Mario Vallejo-Marin, “Buzz pollination in invasive plant populations”

Department of Ecology and Genetics, Uppsala University, Sweden,

mario.vallejo-marin@ebc.uu.se

Abstract submission deadline for *oral presentations* in symposia: 30th November 2023.

Abstract submission deadline for *posters*: 1st February 2024.

Please find all the necessary information regarding abstract submission on the conference website:

https://ibcmadrid2024.com/index.php We are looking forward to receiving your submissions for talks and posters!

We are negotiating the edition of a Special Issue, on the Symposium topic, for the Journal of Plant Research (Springer) with peer-reviewed papers derived from those

relevant contributions.

If you have any questions about the symposium, please contact any of us

(Juan NÃoñez-Farfán, Instituto de Ecología, UNAM, México DF, farfan@unam.mx) and Juan Arroyo, Universidad de Sevilla, Spain, arroyo@us.es).

Feel free to spread this announcement to interested people.

All the best,

Juan NÃoñez-Farfán, Juan Arroyo

Dr. Juan NÃoñez-Farfán Laboratorio de Genética Ecológica & Evolución, Departamento de Ecología Evolutiva, Instituto de Ecología UNAM https://ibcmadrid2024.com/-index.php?seccion=scientificArea&subSeccion=-detailSymposiums&idCom=MTcx https://-www.mdpi.com/journal/plants/special_issues/-AZE8FBK4L0#info Juan NÃoñez Farfán <farfan@unam.mx>

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MPI Ploen GeneticsOfMigration Mar11-14

Symposium: Genetics of Migration 11.-14.03.2024

A symposium on the genetics of migration - integrating developments in behavioural genomics, evolutionary biology, bioinformatics and animal movement ecology to advance research in this field.

We will be hosting the 4-day-symposium at the Max Planck Institute for Evolutionary Biology, Plön, Germany 11-14th March 2024. https://-workshops.evolbio.mpg.de/event/99/overview We have organised the first symposium on the Genetics of Migration in 2010 at Lund University in Sweden, when this field started to fledge and whole genome approaches just started to become accessible for migratory species, and hosted a second edition within this scheme 2017 at the MPI for Evolutionary Biology in Plön. Now that we have various systems characterised genetically, phenotyping technology in the field getting smaller and better by the day and various datasets available for a wide range of species we think it would be fantastic to meet with researchers asking a variety of questions in different study systems to touch base, discuss, and identify new avenues in a friendly environment and atmosphere.

The symposium will start on the Monday 11th March in the afternoon, Tuesday and Wednesday will be covering a mixture of talks and discussion rounds, networking opportunities etc., and on Thursday, 14th March we will finish around lunch, so that people can travel back home before the weekend.

The final layout of the symposium is not set in stone yet, and if you have ideas or suggestions on workshop themes or discussions being included, those would be great to hear (you can suggest ideas in a comment box during registration) - deadline for abstract submission is January 12th 2024.

We have no registration fee and meals during the conference will be covered. Participants will need to cover their own travel and accommodation. A limited number of travel grants for students are available on a competitive basis. If you want to apply, please explain your funding situation and indicate your motivation for joining the meeting below and send abstract and CV separately to workshop@evolbio.mpg.de.

We are looking forward to seeing you there. https://-workshops.evolbio.mpg.de/event/99/overview Miriam Liedvogel <liedvogel@evolbio.mpg.de>

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Online CIGENE AlgalGenomes Dec6

Dear colleagues,

The final seminar of the CIGENE Autumn series takes place next week, Wednesday 6th December, 12:00-12:40 (Central European standard time, GMT+1). See details below.

Speaker: Yawako Kawaguchi, National Institute of Genetics, Japan

Title: Genomic Factors and Impacts of Genomic Size Variation in the Unicellular Green Alga, Closterium psl. Complex

Abstract: Genome sizes are known to vary within and among closely related species, but the knowledge about genomic factors and their impacts on gene functions is limited to a few species. We identified a more than

two-fold heritable genome size variation in the unicellular alga, Closterium psl. complex. Whole genome sequencing revealed that the variation was primarily due to genome-wide copy number variation (CNV), rather than specific repeat sequences. In this talk, I will discuss the reasons behind the maintenance of extensive CNVs in the alga, focusing on their functional bias and expression patterns.

Zoom link: https://nmbu.zoom.us/j/67064421833 Hope to see you there.

Kind regards,

Junsoung Kwak

"junsoung.kwak@nmbu.no" <junsoung.kwak@nmbu.no>

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Online CIGENE RecombHotspots Nov22

Dear colleagues,

The next seminar of the CIGENE Autumn series takes place next week, Wednesday 22nd November, 12:00-12:40. See details below.

Speaker: Marie Raynaud, University of Montpellier

Title: Fine-scale recombination patterns in salmonid fishes support PRDM9-directed hotspot location

Abstract: Recombination hotspots are mainly regulated by the rapidly evolving PRDM9 protein in primates and mice, which has been repeatedly lost in animals and whose role remains largely unknown outside mammals. We recovered full-length PRDM9 protein in salmonid species and identified a complex duplication history of the protein in this group, with differential retention of functional paralogs. We reconstructed population-level recombination landscapes in populations of coho, rainbow and Atlantic salmon, which revealed that recombination hotspots are mainly located away from promoters and evolve rapidly between closely related species and populations, as observed in mammals with a functional Prdm9, patterns not found in species that have lost the protein. Taken together, our results suggest that PRDM9 regulated recombination hotspots in the common ancestor of vertebrates.

Zoom link: https://nmbu.zoom.us/j/67064421833 Hope to see you there.

More information on future seminars in this series is available on the CIGENE website < https://cigene.no/-cigene-seminar-series/ >.

Kind regards,

Junsoung Kwak

Junsoung Kwak <junsoung.kwak@nmbu.no>

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Online ESEB STN Speciation Dec5

Dear colleagues,

The next instalment of the online seminar series organised by the ESEB-funded STN network ≪ Integration Of Speciation research ≫ ([https://speciation-network.pages.ist.ac.at/]) will be held on 05 December 2023, 5 pm CET.

The upcoming session addresses the topic of "Macroecological perspectives on speciation". We welcome speakers Catherine Wagner (University of Wyoming, USA) and Carlos Daniel Cadena Ordoñez (Universidad de los Andes, Colombia).

The session will last 1.5 hours, with the first hour dedicated to talks from our speakers followed by questions. The last half-an-hour is dedicated to a more general discussion.

To attend the session live, please use the following link: https://gu-se.zoom.us/j/64487667210 Talks (but not the discussion session) are recorded and made available here: https://www.youtube.com/channel/-UClEkDdE_5sDw70SQq78DIAA . The IOS network aims to promote scientific integration and also integration of the community. A main objective on this front is to foster diversity and inclusion across the field. The seminar series and subsequent discussion is open to everyone, from students to established researchers and non-scientists alike. In order to maximise the geographic diversity of attendees, we will alternate between two time slots every other month: 5 pm CET and 9 am CET. Please help us to circulate this email to anyone who may be interested, especially those in countries that are typically underrepresented in scientific discourse.

The programme of the seminar series is announced by email, on Twitter (@Speciation_net) and on the IOS network website. People who wish to automatically

receive the programme and other news from the IOS network can sign up to the network mailing list from the IOS website.

We look forward to seeing you there!

The STN IOS organising committee:

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

NERC Research Fellow School of Biosciences University of Sheffield www.cooneylab.co.uk Chris Cooney <c.cooney@sheffield.ac.uk>

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Online ImmuneSystemEvolution Nov8

Dear colleagues,

The next seminar of the CIGENE Autumn series takes place next week, Wednesday 8th November, 12:00-12:40. See details below.

Speaker: Anthony Redmond, Trinity College Dublin, Ireland

Title: Ancient transitions in animal evolution and the shaping of our immune system

Abstract: The immune system is fascinatingly complex, being based on intricately interwoven and regulated networks of proteins, cells and tissues that defend us from pathogens. Despite, active and longstanding efforts to understand its evolution there are major gaps remaining in our knowledge of immune evolution. I will discuss my work using comparative genomics and phylogenetics to illuminate the evolutionary origins of the vertebrate and animal immune systems.

Zoom link: https://nmbu.zoom.us/j/67064421833 Hope to see you there.

More information on future seminars in this series is available on the CIGENE website < https://cigene.no/-cigene-seminar-series/ >.

Kind regards,

Junsoung Kwak

junsoung.kwak@nmbu.no

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Online SSE ForMandarinSpeakers Nov11

SSE International Symposium for Mandarin Speakers in East and Southeast Asia

Saturday, 11 November, 10:00 - 15:15 China Standard Time (UTC+08:00) Conducted via Zoom Free - register by 12 November

This is a free bilingual symposium where participants will hear from featured speakers Bing Yang, Shengnan Zhang, Xin Dang, Yun Hsiao, Huang Xianting, Qi Liu, Kai Wei, and Shu-Miaw Chaw. Following the talks, join a discussion of the challenges and opportunities of doing evolutionary biology research in East and Southeast Asia.

Participants can gain insights on publishing in Evolution during a panel with Associate Editors Jen-Pan Huang and Suhua Shi, and the Evolution English Language Support Program editor Sishuo Wang on November 13 at 10:00 China Standard Time (UTC+08:00).

This symposium and panel are part of the SSE International Symposia Series. More information about the symposium speakers, schedule, and panel is available on the SSE website: https://-www.evolutionsociety.org/international-symposia-series/third-international-symposium-for-mandarin-speakers-in-east-and-southeast-asia.html Register by November 10 for free to reserve your spot!

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

Online TransposableElements Feb21-Feb28

Dear colleagues,

the third edition of the conference "Transposable Elements in human evolution and diseases" will be in February 2024.

This year there will be two separate symposia:

TEs in human evolution: 21st February 2024; TEs in human diseases: 28th February 2024.

We also opened a call for abstracts! Up to six abstracts will be selected for 15 minutes talks + 5 minutes Q&A. Abstract submission closes on 14th February at 6pm (CET).

You can find all the info on the website: https://-transposableelementsbrain.wordpress.com/ Yours sincerely,

Giorgia Modenini giorgia.modenini2@unibo.it

Giorgia Modenini, PhD Studentâ€

Molecular Anthropology Lab & Centre for Genome Biology

Dept. of Biological, Geological and Environmental Sciences

University of Bologna

Via Selmi, 3 - 40126 Bologna (Italy)

mail: giorgia.modenini2@unibo.it

Giorgia Modenini <giorgia.modenini2@unibo.it>

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PuertoVallarta SMBE2024 CallForSymposiumProposals

*** Reminder ***

Dear Colleague,

SMBE 2024 Puerto Vallarta has call for symposium proposals is still open until Nov 10th!

Please visit the 2024 conference website for more information: https://smbe2024.org/ Results will be announced Dec 6th.

Best Regards,

SMBE Business Office

smbe2024@gmail.com

#SMBE24

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

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SanDiego PAG31 PopConservGenomics Jan12-17

Deadline Extended to November 10, 2023 Call for Abstracts Population and Conservation Genomics Workshop Plant and Animal Genome 31 (PAG 31) International Conference http://www.intlpag.org/31/ January 12-17, 2024 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome 31 (PAG 31) International conference. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include (but not limited to): population genomic diversity and structure; molecular evolution; pangenomes; phylogeography; landscape genomics; seascape genomics; natural selection and local adaptation; ecological and evolutionary genomics; population epigenomics; pale-

ogenomics; eDNA; bioinformatics in population and conservation genomics; population genomics of speciation; metapopulation genomics; application of genomics in breeding, forensics, biogeography, demography inferences, and conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The Workshop will have 2 sessions (January 13 and January 15) with a provision for 12 invited speakers. Most of the invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than November 10, 2023. Please make sure to include complete affiliations of all authors and email address of the corresponding author. You will be notified by November 13, 2023 whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora University of New Brunswick Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477

Om Rajora <om.rajora@unb.ca>

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Squamish BritishColumbia ViralEvolution Jun19-22

Dear all,

We are very excited to announce that the 31st International Dynamics & Evolution of Human Viruses conference will be held June 19-22, 2024 at the Executive Suites Hotel & Resort in Squamish, BC, Canada. This will be a hybrid meeting, which will include a live in person meeting and a virtual option. Scientific sessions will be June 20-22, 2024.

This meeting series was designed to promote discussion between specialists in quantitative and computational approaches in two areas in the field of virology where these are particularly important:

Modeling of viral and cellular dynamics Viral evolution and population genetics

Many of these approaches were originally developed for HIV but are now applied to many viruses where extensive data are available. We encourage the submission of abstracts relating to work on HIV, SARS-CoV-2 and other human viruses. We consider topics on statistical, mathematical, computational, and integrative approaches to analyzing the dynamics and evolution of human viruses within the scope of this meeting.

Abstracts are being accepted under the following topics from which the final conference schedule will be constructed:

Vaccines & Immune escape Zoonoses & Emerging Infections Genomics & Bioinformatics Software Tools & Methods Transmission Dynamics & Clusters Within-Host Dynamics & Adaptations Phylodynamics & Phylogeography

This year, we will be using the Indico platform for abstract submission and review. You will be prompted to create a user account to submit an abstract if you do not already have one. Detailed instructions for creating a user account are provided at this wiki page. We actively encourage participation of researchers from around the globe, including junior scientists and members of minority groups.

Travel Grants A limited number of travel grants may be available for young investigators from underserved populations to attend this program. If you wish to be considered, please email Maureen Helinski atmhelinski@ucsd.edua letter of request no later than January 3, 2024. Include details on your present role, and why you should be considered for an award. Please note that in order to receive a travel grant, you must submit an abstract and have it accepted.

Course Chairs Jeffrey Joy, PhD - University of British Columbia, Canada and BC Centre for Excellence in HIV/AIDS Art Poon, PhD - Western University, Canada

Please visit our website for more information, registration, and abstract submission

https://dynamicsevolution.org/event/2/ We look forward to the usual fantastic scientific program and hope to see you in Squamish.

Best regards,

Art Poon and Jeff Joy

Jeffrey Joy <jeffrey.b.joy@gmail.com>

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Uppsala Reproduction Feb15=16

Dear Colleagues,

The Centre for Reproductive Biology in Uppsala, Sweden, organizes a conference on February 15-16 2024.

Please see the website for details:

https://www.slu.se/en/ew-calendar/2024/2/-conference-from-gametes-to-epigenomics-the-symphony-of-reproduction/ Best wishes,

Martin

Martin Johnsson <sorill@gmail.com>

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Washington DC PopEvolQuantGenetics Mar6-11

The Genetics Society of America will hold the popular Population, Evolutionary, and Quantitative Genetics Conference as part of The Allied Genetics Conference March 6-11, 2024, in the Washington, DC area.

The abstract deadline is almost here. Make sure your research is included by submitting your abstract for an oral or poster presentation by November 9, 2023. Visit https://genetics-gsa.org/tagc-2024/abstract-submission/ Bret Payseur <bret.payseur@wisc.edu>

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GradStudentPositions

AMNH NewYork ComparativeBiology

We are now accepting applications for our Ph.D. in Comparative Biology Program and Graduate Fellowships Program at the American Museum of Natural History's Richard Gilder Graduate School for Fall 2024.ï¿½ Deadline: December 15, 2023.

The AMNH Ph.D. Program in Comparative Biology is training the next generation of biologists through an integrative approach focused on the history, evolutionary relationships, and interactions among species. It builds on the Museum's strength and experience in research and training, educating a new generation of scientists to become leaders in understanding the history and diversity of life on Earth and in disseminating their work in ways that will support advances in biological research, human health, biodiversity conservation, and other related fields. This is an accelerated program, designed for students to complete their degrees in four years. The Richard Gilder Graduate School will typically provide full financial support to students matriculating in the Comparative Biology Ph.D. Program.

We also offerï¿½Ph.D. Graduate Fellowshipsï¿½for students interested in earning a Ph.D. at one of our partner institutions.ï¿½ The AMNH Graduate Student Ph.D. Fellowship Program is an educational partnership with selected universities, dedicated to the training of Ph.D. candidates in those scientific disciplines practiced at the Museum. Our current collaborations are with Columbia University, City University of New York (CUNY), Cornell University, Stony Brook University, and New York University (NYU). The host university in which the student enrolls exercises educational jurisdiction over the students and formally awards the degree. In these partnership programs, at least one Museum curator must serve as a graduate advisor, co-major professor or major professor, and adjunct university faculty member. Each student benefits by having the staff and facilities of both the university and the Museum to support his/her training and research. To be eligible for the AMNH Graduate Ph.D. Fellowship, students must apply to both the host University's Ph.D. program and to the AMNH Graduate Student Ph.D. Fellowships Program. Students already matriculated in a Ph.D. program are not eligible to apply; only new, first-time Ph.D. applicants will be considered.

Students who plan to apply to both the RGGS Comparative Biology Ph.D. Program and to the Graduate Fellowship Program complete one single application, indicating on the application the program(s) to which they wish to apply. Students applying for the Graduate Fellowship must also apply for admission to at least one Ph.D. Program at one of the Museum's Partner Institutions.

Admission offered for the fall semester only

Applicants are strongly encouraged to contact a member of the faculty prior to application (see: https://www.amnh.org/research/richard-gilder-graduate-school/faculty)

For more information and to apply, please go to: https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/doctoral-student-fellowships
Anna Manuel <amanuel@amnh.org>

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Berlin MicrobiomeMediatedDaphniaAdaptation

PhD position on microbiome-mediated adaptation of Daphnia to pollution

The research groups Evolving Metacommunities < https://www.igb-berlin.de/en/de-meester > and Disease Evolutionary Ecology < https://www.igb-berlin.de/en/wolinska > at the Department of Evolutionary and Integrative Ecology of IGB invite applications for a 3-year PhD position in evolutionary ecology starting from 01.03.2024 (or soon thereafter). The PhD position is part of the Leibniz Collaborative Excellence

project “Pollution in urban ponds, eco-evolutionary dynamics and ecosystem resilience” (POUNDER) funded by the Leibniz Association and will be located in Berlin-Friedrichshagen. The overall goal of the POUNDER project is to assess the importance of urban ponds as nature-based solutions to manage climate-related hydrologic risks, while promoting biodiversity and human well-being in cities. POUNDER is an inter- and transdisciplinary project and involves partners from Berlin, Stechlin, Potsdam, Hannover, and the University of Iowa, USA.

The aim of this PhD project is to quantify how the gut microbiome mediates the response of Daphnia to chemical pollution in urban ponds and whether such adaptation results in increased resilience of pond ecosystems. If you are passionate about evolutionary and microbial ecology and aspire to make a meaningful contribution in the context of urban ecology and sustainability, this is an exceptional opportunity to be part of a cutting-edge and interdisciplinary research project.

The research will combine field sampling of urban ponds in Berlin with laboratory experiments to assess if microbiome-mediated adaptation of Daphnia to urban pollution enhances ecosystem resilience, as well as data evaluation and statistical analysis. Due to the interdisciplinary nature of the project, the successful candidate will have the opportunity to interact with scientists from different institutions and to establish a broad network within and outside of academia. IGB provides an attractive working environment and has excellent equipment, technical support, and state-of-the-art infrastructure to conduct the PhD project and provides a PhD programme < https://www.igb-berlin.de/en/-doctoral-education > for PhD candidates.

Your tasks

* Field work and sampling of urban ponds * Isolation of Daphnia populations from pond and experimental samples * Isolation of gut microbiomes of Daphnia from pond samples * Designing and performing experiments to test for microbiome- mediated tolerance of Daphnia to urban pollution (including microbiome transplants) * Participation in an outdoor mesocosm experiment to assess the impact of pollution on aquatic organisms * Performing statistical analyses of experimental data * Writing of manuscripts for submission to international peer- reviewed journals * Further result dissemination through presentations at national and international conferences

Your profile

* Master (or equivalent) degree in biology, environmental sciences or a related field * Keen interest in understanding eco-evolutionary and host- microbiome interactions * Strong engagement for experimental work; demonstration of previous hands-on experience with experimental work is a bonus * Experience in statistical analysis (preferentially in R) * Very good English skills including scientific writing * Collaborative team-spirit and good communication skills

Our offer We offer an interesting position in an international and dynamic scientific environment. We foster flat hierarchies and active participation. The position is intended for full-time doctoral research for 3 years and is paid according to the German salary scheme for the public sector (TV?D Bund, 65% of E13, subject to the provision of funds). We foster your career development < https://www.igb-berlin.de/karriere > by providing qualification and training opportunities. 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.igb-berlin.de/-en/equal-opportunities >. We welcome every qualified application, regardless of sex and gender, origin, nationality, religion, belief, health and disabilities, age or sexual orientation. Disabled applicants < https://www.igb-berlin.de/en/colleagues-with-disabilities > with equal

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ClemsonU HumanGenetics

Multiple PhD Positions in Human Genetics, Clemson University

The Population Epigenomics Lab at Clemson University (https://populationepigenomics.com/), led by Dr. Shyamalika Gopalan, has multiple PhD positions available starting Fall 2024. All positions are fully funded for the duration of study.

We use computational methods to study the evolution and genetic basis of human traits. Successful applicants should hold a bachelor’s degree in biology, anthropology, or a related field, and will have strong skills in bioinformatics and programming, or strong motivation to develop these skills. Potential areas for dissertation work include, but are not limited to: the evolution and

molecular drivers of aging; phenotypic change during domestication; disease risk prediction across diverse populations; and the evolution of pathogen resistance.

Interested applicants should reach out to Dr. Gopalan and ensure that they apply to the Genetics and Biochemistry PhD program by December 1st 2023 (https://www.clemson.edu/science/academics/-departments/genbio/academics/doctorate.html).

"Shyamalika Gopalan, Ph.D." <shyamalika.gopalan@duke.edu>

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ColoradoU Denver EvolutionaryEcoPhysiology

The Ragland lab is seeking a PhD or MS student to join the lab in Fall '24. For MS students several research directions are available including life history and phenology of bark beetles or other pests of Rocky Mountain forests, developmental regulation of dormancy, physiology and evolution of responses to acute thermal stress, and the evolution of transcriptional plasticity. PhD students would initiate research in these topic areas with options to expand or transition to new research topics depending on background and experience. There are also opportunities to participate in NSF-funded efforts to develop, maintain, and assess course-based undergraduate research opportunities (CUREs) designed to increase inclusivity and accessibility of undergraduate research experiences.

Students will be supported mainly by teaching (TA) during the fall and spring semesters, with research funding available for the summer. Research assistantships during the regular academic year are also possible, funding permitting. I am targeting an annual income of about $28,000 at the PhD level. TA compensation does not depend on MS/PhD status (~$20k/yr), but summer RA salary is commensurate with experience. We provide full tuition remission (MS/PhD).

We are housed in the Department of Integrative Biology at the University of Colorado, Denver. Faculty in the department specialize in areas ranging from molecules to ecosystems, and our department and university support a number of programs devoted to the science and application of inclusive pedagogy. We maintain relationships with the Denver Botanic Gardens and the Denver Museum of Nature and Science who also participate in our graduate programs. The downtown campus is also closely tied to the CU Denver medical school and associated resources and infrastructure. Denver is a mid-sized city surrounded by a large metro with fantastic recreational opportunities in town and the nearby Rocky Mountains.

Our lab is broadly interested in how organisms interact physiologically with their environment, and how those interactions evolve over space and time. We mainly work on insects and often focus on how life cycles are synchronized with environmental variation or how organisms directly confront temperature-induced stress. Students in the lab have applied a variety of approaches over the years including field observations and monitoring, population genomics, transcriptomics, respirometry, and laser confocal microscopy. I am excited about working with students from all backgrounds and maintain a friendly, inclusive, and welcoming environment.

Please direct inquiries to Greg Ragland (gregory.ragland@ucdenver.edu), including a brief message detailing your background, interests, and goals, a CV/resume, and unofficial transcripts.

The deadline for application to the graduate program is 1 December 2023.

See here for more information about:

The lab: https://raglandlab.wordpress.com
The graduate program in Integrative Biology: https://clas.ucdenver.edu/integrative-biology/-academics/graduate-programs "Ragland, Gregory" <GREGORY.RAGLAND@UCDENVER.EDU>

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CzechRepublic RapidEvolutionCommunities

PhD - Rapid Evolution in Communities

We invite prospective candidates for a four-year PhD Studentship funded by ERC grant of Jan Hrcek to explore exciting questions on the interface of population genetics and community ecology.

It is increasingly clear that evolution can be rapid, with important traits changing within a few generations. But we are only beginning to understand the consequences of this eco-evolutionary process for dynamics of host -

parasite interactions and stability of entire communities. We ask how rapid evolution impacts maintenance of diversity in communities and maintenance of genetic variation in populations - processes which have been mostly studied separately.

To address these questions, our collaborative project uses a novel experimental community model system of wild Drosophila species and their parasitoids from tropical Australia.

We are able to perform multigenerational laboratory microcosm experiments and track eco-evolutionary dynamics in fine detail. The candidate will use a combination of the following approaches: laboratory experiments on rapid evolution, and maintenance of species diversity and genetic variation in communities, experimental evolution, population genomics, eco-evolutionary modelling, and field surveys of Drosophila - parasitoid food webs in Australian tropical rainforest. The specific PhD projects will result from a discussion between the candidate and the supervisor. The candidate will take part in the fieldwork in Australia, probably already in the second half of 2024.

The successful applicant will join the Laboratory of Experimental Ecology [http://lab.hrcek.net] at the Biology Centre, Czech Academy of Sciences, Ceske Budejovice, Czech Republic, under the supervision of Dr Jan Hrcek. The laboratory is a multinational team of postdocs, PhD students and technicians. The applicant will thus have the opportunity to work extensively with other team members. The laboratory obtained prestigious high-level funding for five years (ERC Consolidator grant) and therefore can provide substantial resources and support for exceptional research. The laboratory is part of a dynamic international centre for research in species interactions.

Together with the PhD student we will choose a co-supervisor from current international collaborators (listed at the bottom of [http://lab.hrcek.net/-people.html] page) or start new collaborations. The position will include a research stay abroad.

The deadline for applications is 5th January 2024. The position can start from March 2024 onwards. The student will receive a salary which comfortably covers living expenses in the Czech Republic.

The working language is English and applicants from all countries are eligible. A MSc degree is required to enter PhD in Czech Republic. Following experience is an advantage:

§Research experience with laboratory experiments

§Experience with population genetics or molecular ecology

§Experience in eco-evolutionary dynamics or population genetic modelling

§Driving licence and fieldwork experience

To apply please send one document comprising a motivation letter, CV, and contact details for two references to Jan Hrcek [janhrcek@gmail.com].

Jan Hrcek <janhrcek@gmail.com>

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GmbH Germany MarineFishGenomics

The Leibniz Centre for Tropical Marine Research GmbH (www.leibniz-zmt.de) is an independent research and teaching institute that provides scientific knowledge for the protection and sustainable use of tropical coastal ecosystems. To this end, we work in an inter- and transdisciplinary manner with our partners in the tropics. The ZMT is a member of the Leibniz Association.

The ZMT offers a position for a (subject to release of funds)

Doctoral candidate

in marine fish genomics (gn)

(Reference: 24-FISHTRANSISTHM)

The Central American Isthmus (CAI) closed about three million years ago, providing the backdrop for one of the most remarkable natural experiments of genomic divergence and adaptation in tropical marine organisms. The rise of the CAI simultaneously separated marine populations that were previously connected and profoundly shaped the physical environments of the two newly isolated oceans. Since then the Tropical Eastern Pacific (TEP) and the Tropical Western Atlantic (TWA) differ across several major environmental axes. These include temperature, pH, dissolved oxygen and productivity, parameters that are now rapidly changing on a global scale. This project aims to exploit this powerful natural experiment to study the intersection between past and contemporary evolutionary processes and the role they play in the resilience and adaptability of marine fishes. It is a collaboration among researchers based in Germany, Panama and the USA.

Your tasks:

- Labwork (DNA extractions) - Data analysis (genomic data, bioinformatics) - Critical interpretation of the results - Scientific writing and publication - Presentation at international scientific conferences - Contribute to coordinate the project with collaborators

Requirements:

- Master of Science with focus on Biology or equivalent research experience - Fluency in English (spoken and written)

Ideally, a successful candidate (gn) would also demonstrate

- A background in evolutionary biology - A background in genetics - Bioinformatic skills and/or interest and ability to learn quickly and independently - Research experience with fishes and/or the study system (Central American Isthmus) - Experience with scientific scuba diving

Further information:

For questions please contact Prof. Dr. Oscar Puebla, email: oscar.puebla@leibniz-zmt.de

Details of position:

Salary will be paid according to the German TV-L (EG 13). The position is available for part-time (65 % of a full-time position) employment starting December 15, 2023 for 36 months. The successful candidate will work in collaboration with all the project members in Bremen, Kiel, Panama and the USA.

ZMT is an equal opportunity employer. Applicants with a migration background are welcome. Disabled persons with comparable qualification receive preferential status. The ZMT values its diverse workforce and pursues the goal of providing equal opportunity, which incorporates gender neutrality (gn). We will be happy to accept your documents without a photo.

We offer:

- A dynamic, interdisciplinary and international environment - Interesting, versatile and challenging tasks - Family-friendly working conditions with certification by the Work and Family Audit - Diverse health promotion measures

Submission of application:

Please submit your cover letter and a short CV by 30.11.2023 as a single pdf file with the reference number “24- FISHTRANSISTHM” to Ms. Carina Seemann, email: bewerbung@leibniz-zmt.de.

Leibniz Centre for Tropical Marine Research, Fahrenheitstraï¿½e 6, D-28359 Bremen.

“Prof. Dr. Oscar Puebla” <oscar.puebla@uni-oldenburg.de>

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LundU GenomicsPlantSexDetermination

We are recruiting two excellent and highly motivated students to undertake PhD studies into the genomics, evolutionary genetics, and systematics/biogeography of dioecy in the Hawaiian radiation of flowering plants within the genus Wikstroemia, based at the dynamic and collegial Biology Department at Lund University, Sweden.

Background: These positions are funded by an ERC starting grant to the principal investigator. The major goal of this research is to understand the genomic changes underlying a critical evolutionary transition in eukaryotic life: the evolution of separate sexes (dioecy) from hermaphroditism via the origin of new sex chromosomes. This work will shed light on how new sex-determining genes and sex-linked genome regions evolve by studying repeated evolutionary transitions from hermaphroditism to dioecy within the endemic Hawaiian radiation of the flowering plant genus Wikstroemia (Thymelaeaceae; ÂÂ’12 spp.). The Hawaiian Wikstroemia are particularly interesting in this respect because they have evolved at least two, and possibly three, different genetic mechanisms of sex-determination in parallel during what appears to be a recent island radiation.

PhD opportunity #1: “Genomics of sex-determination in the Hawaiian Wikstroemia” Deadline to apply: Nov. 27th, 2023. Anticipated start date: March 2024.

The goal of this PhD project is to understand the genomic changes giving rise to at least two and possibly three parallel transitions from hermaphroditism to dioecy via the evolution of new sex chromosomes within the Hawaiian Wikstroemia. The specific aims include (i) generation of high-quality genome assemblies for multiple species representing each form of dioecy and hermaphrodites; (ii) using a combination of experimental greenhouse crosses as well as genomic and bioinformatic approaches to identify sex-linked sequences and candidate sex-determining genes associated with each; and (iii) depending on the interests of the student, investigate the mechanism and timing of recombination suppression, or study more closely the functional

genetics of sexual dimorphism.

The project may include field work in HawaiÂÂi and is suitable for candidates with a background and interest in genomics, evolutionary biology of flowering plants, botany, computational biology, and possibly functional genetics.

APPLY HERE: http://lu.varbi.com/what:job/-jobID:670411/ (reference #PA2023/3249). The position should also be listed at https://-www.lunduniversity.lu.se/vacancies. For more information, please see the project description at https://colinolito.com/opportunities/, or send me an email.

Successful applicants will have a track-record demonstrating a passion for evolutionary biology, genomics/genetics, systematics, and/or botany. Suitable applicants must meet the general admission requirements for third-cycle courses and study programmes (i.e., the international equivalent of a B.Sc.) in a discipline relevant to the PhD project. Applicants with additional relevant experience, including honours research experience and/or a M.Sc degree are strongly encouraged to apply.

The Olito Lab is part of the Genetics of Sex Differences Research Group (https://portal.research.lu.se/-en/organisations/genetics-of-sex-differences) embedded within the dynamic and collegial Biology Department at Lund University. The SexGen research group is a welcoming and highly collaborative group of PI's, post-docs, and students from the combined labs of Drs. Jessica Abbott, Bengt Hansson, and Colin Olito.

Colin Olito, Biology Department, Lund University email: colin.olito@biol.lu.se Lab website: https://-colinolito.com/ Coming soon... A second position will be advertised later this year. Email for more information.

PhD opportunity #2: "Molecular systematics of Hawaiian Wikstroemia and the biogeography of sex-determining genes" Anticipated start date: late 2024 to early 2025.

The goal of this PhD project is to provide the macroevolutionary context for understanding the evolution of dioecy in the Hawaiian Wikstroemia by clarifying both the systematics of the Hawaiian clade within the genus, and the biogeography of sex-linked genome regions and sex-determining genes within the Hawaiian radiation. The major aims of the project are to (i) clarify the phylogenetic relationships among extant Wikstroemia species, including estimating the timing of colonization of the Hawaiian archipelago by a hermaphrodite ancestor, and placing the Hawaiian clade within the broader genus-level phylogeny; (ii) perform a phylogenomic and biogeographic analysis of sex-linked genome regions for each form of dioecy, with the aim of reconstructing

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MacquarieU BeeEvolution

PhD at Macquarie University, Sydney, Australia

Untangling environmental effects on bee health

A PhD scholarship is available to investigate how pollinator-pathogen dynamics shift and evolve across environments in two globally distributed bee species (honeybees and bumblebees) exposed to different Varroa impacts. The candidate will join the Landscape Genetics lab in the School of Natural Sciences at Macquarie University under the supervision of Rachael Dudaniec.

The project implements genomic approaches spanning invasive bees in Australia (AU) and New Zealand (NZ), and native bees in the United Kingdom (UK). This PhD project will identify key biotic and abiotic determinants of viral and microbial dynamics, and their effects on pollinator-pathogen evolution, in both native and invasive bees. Further, while NZ and UK have been exposed to the destructive Varroa mite for a long time, Tasmania offers a time sensitive, pre-Varroa snapshot of bee health.

The PhD project would suit candidates with background in some or all of: evolution, genetics, landscape ecology, viruses, microbiomes and DNA metabarcoding. There will be considerable flexibility in the design of the project, and candidates are encouraged to develop their own questions.

The scholarship is available for candidates who are eligible to undertake a direct entry three-year PhD program and the position is open to both domestic and international students.

The value of the stipend scholarship is $35,000 per annum (full-time, fixed rate) for up to three years.

To apply and for more information see:

https://www.mq.edu.au/research/phd-and-research-degrees/how-to-apply/scholarship-opportunities/-

scholarship-search/untangling-environmental-effects-on-bee-health Dr Rachael Dudaniec, PhD (she/her) Senior Lecturer School of Natural Sciences Macquarie University Sydney, Australia, 2109 Office: E8A374 Ph: +61 (2) 9850 8193

Landscape Genetics Lab dudanieclab.weebly.com @rdudaniec

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

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MississippiStateU GenomicDiversity

Graduate position: Mississippi State University

The Smith lab at Mississippi State University is recruiting a PhD student for Fall 2024! We develop methods for studying diversification using genomic data, and apply these methods to study diversification in terrestrial snails and slugs. We are looking for students interested in methods development in population genetics and phylogenetics and/or studying diversification in terrestrial slugs. Ongoing projects include the development of machine learning approaches to investigate species' evolutionary histories and investigations into the evolutionary histories of invasive slugs. Our lab combines fieldwork, wet lab work, and computational work, and thus there are varied opportunities depending on student interests. Additional information on the lab can be found at https://www.meganlsmith.org/ . Those interested should contact me directly by email (msmith@biology.msstate.edu) before applying with an attached CV and a brief description of your research interests. Our graduate admissions deadlines are flexible but applications before February 1, 2024 are preferred. Our department no longer requires the GRE. Mississippi State is located in Starkville, Mississippi, a half-hour drive from excellent outdoor recreation opportunities in the Noxubee Wildlife Refuge and the Tombigbee National Forest. We are 1.5 hours from Tuscaloosa, 3 hours from Memphis, and 4.5 hours from New Orleans. Additional departmental details can be found at: https://www.biology.msstate.edu/ . "Smith, Megan" <msmith@biology.msstate.edu>

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NewZealand MarineEvolutionaryEpigenomics

Fully funded PhD position on evolutionary epigenomics in New Zealand

We are seeking a highly motivated PhD student to investigate the effect of reproductive mode on epigenetic inheritance. To study this we will use species from the genus Artemia where both sexual and asexual reproduction co-exist. This is a fully funded PhD position based in Nelson, New Zealand, for three years to be filled as soon as possible.

Project description The role of epigenomic variation in facilitating responses to environmental change is under debate. Epigenetic variants can rapidly integrate environmental information into genomes to extend phenotypic performance, however, long-term consequences for populations depend on the persistence of epigenetic inheritance. Species' reproductive mode (e.g. sexual vs asexual, oviparity vs viviparity) influences the adaptive potential of epigenetic inheritance (Anastasiadi et al. 2021). However, despite support for its importance, critical knowledge gaps exist about how the reproductive mode affects the inheritance of environmentally induced epigenomic responses.

The project seeks to test how the reproductive mode modulates inherited epigenomic variation in response to the environment, and seeks to measure the extent of genetic assimilation over generational time. Our exemplar model is the brine shrimp Artemia, where both sexual and asexual reproduction co-exist. The PhD student will use multigenerational, replicated experiments, integrated with state-of-the-art sequencing, to compare between reproductive modes: (1) the extent of epigenomic inheritance, (2) fitness impacts due to inheritance in changing environments, and (3) frequency of genetic assimilation of epigenomic variants. Elucidating how the reproductive mode affects epigenomic inheritance will shed light on one of the most fundamental mechanisms species are equipped with to respond to environmental changes.

Candidate requirements The PhD student will set up and oversee experimental Artemia multigenerational cultures, prepare DNA methylation sequencing libraries and perform bioinformatics and statistical data analysis to test the hypotheses. The PhD student will present

the results of the research via publications and at meetings. Technical and scientific staff and supervisors will support the PhD student from breeding to lab work and computational analyses.

The prospective candidate should have a background in evolutionary biology, epigenetics, bioinformatics or a related field. We are searching for an applicant with experience preparing NGS libraries, and a strong background in bioinformatics and analytical skills to analyse -omics datasets. Data analysis of next generation sequencing data will be the main workload of the project. Therefore, knowledge and experience of a scripting language (e.g., R and Python) is beneficial. A proven ability and motivation to write research papers is essential. The ideal candidate will have a strong interest in evolutionary biology and will be highly motived, curious, and able to work independently and in a team.

This PhD project will provide an excellent opportunity to learn the latest interdisciplinary technologies including marine invertebrate biology, genomic and epigenomic sequencing and data analysis. The PhD student will gain experience working in academic and government institutions. They will be a member of a highly active and collaborative group of researchers.

Funding The salary is established according to local University standards. We will provide a three-year scholarship that provides a stipend and university fees. Funding comes from a Marsden grant from the Royal Society in New Zealand (23-PAF-012).

Supervisors 1. Dr Dafni Anastasiadi, Plant and Food Research (PFR), Nelson, New Zealand https://scholar.google.com/citations?user=-3DeW9oOTMAAAAJ&hl=3Den 2. Associate Professor Maren Wellenreuther, Auckland University and Plant and Food Research (PFR), Nelson, New Zealand. https://scholar.google.com/citations?user=-3DB6vt1LEAAAAJ&hl=3Den&oi=3Dao https://-marenwellenreuther.com/ Further information and useful links: Students will be based in the Nelson Research Centre of the New Zealand Institute for Plant and Food Research (PFR): https://www.plantandfood.co.nz/ Beautiful Nelson city: http://www.nelsonnz.com Students will be enrolled at the University of Auckland: https://www.auckland.ac.nz/en.html How to Apply Applicants should send a CV, contact details of two academic referees and a cover letter that states why you are interested in the position

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NorthDakotaStateU TroutComparativeGenomics

The Genomics, Ecology, and Modeling for Conservation Lab at North Dakota State University, led by Travis Seaborn, is recruiting for one position to join our team working our recently funded Bipartisan Infrastructure Law Ecosystem Restoration Research Project. This project spans collaborators across North Dakota State University, Idaho State University, and multiple U.S. Forest Service Stations. The primary goals of this position include (1) Identify how landscape features, geographic distance, restoration activities and environmental stressors promote or limit gene flow among the four salmonid species in the basins. (2) Incorporate ecological, genetic, and social results in an integrative model to make predictions and identify preventative measures for future invasions in the river basins. To express interest and/or apply, please email travis.seaborn@ndsu.edu. To formally apply, please include a short letter of interest, which should include an explanation of fit and past relevant experience, and CV by Dec 8th. Anticipated start date: Summer 2024. Stiped ~$25,000.

“Seaborn, Travis” <travis.seaborn@ndsu.edu>

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Norwich UK SplicingNetworks

Graduate Position: There is more than meets the eye: reconstruction of isoform level regulatory networks in the human brain.

Therapies for many potentially treatable genetic diseases remain out of touch because we still don’t have a full picture of how genes are regulated differently between cells and tissues. Many genes, including some directly associated with traits and disorders, are widely expressed across cells and tissues, leading to potential unwanted secondary effects if blindly targeted with medications.

However, nearly all genes in humans undergo alternative splicing, the process through which different transcripts

are generated from a single gene.

Recent work by us and others demonstrated that alternatively spliced transcripts arising from many of these genes tend to have a much more specific expression, opening the opportunity to identify specific isoforms as potential targets for drug development. To further the identification of isoforms of interest it is becoming increasingly important to fully characterise their regulation through the reconstruction of regulatory networks integrating splicing information in relevant tissues.

We offer a highly collaborative PhD project between the Haerty < https://www.earlham.ac.uk/research-group/-haerty-group > (bioinformatics) Macaulay < https://-www.earlham.ac.uk/research-group/macaulay-group > (molecular biology, technology development) groups. The main aim of the project is to develop approaches to reconstruct regulatory networks at the transcript level in the human brain, assess the transcript regulation for candidate genes, and assess the impact of genetic variation on transcript regulation.

The student will work in a rapidly developing field and gain unique expertise in computational biology, large dataset analysis, genomics, transcriptomics, sequencing technologies, molecular biology, technology development, and therapeutic target identification.

The project will be conducted at the Earlham Institute, a UKRI-BBSRC research centre of excellence for bioinformatics and sequencing technology development, in close collaboration with scientists at the University of Oxford.

The student will have access to training and career development opportunities at EI and on the Norwich Research Park as part of the Norwich Biosciences Doctoral Training Partnership.

Closing date November 20th 2023

https://www.earlham.ac.uk/studentship/there-more-meets-eye-reconstruction-isoform-level-regulatory-networks-human-brain-0 Wilfried Haerty Group Leader [signature_2439344200] Norwich Research Park Norwich Norfolk NR4 7UZ +44 (0) 1603 450 974 wilfried.haerty@earlham.ac.uk www.earlham.ac.uk "Wilfried Haerty (EI)" <Wilfried.Haerty@earlham.ac.uk>

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StockholmU Palaeogenomics

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

The PhD project is part of the First Contact research program funded by the Knut and Alice Wallenberg Foundation, with the goal of understanding the impacts of human dispersal on faunal biodiversity. The PhD project will use state-of-the-art ancient DNA techniques from both bones and sediments to reconstruct the evolutionary and ecological histories of animal communities across time intervals that include the first arrival of humans in multiple regions. You can read more about the project at https://kaw.wallenberg.org/en/research/-exploring-our-first-meeting-mammoths . The PhD student will join the research group at CPG led by Peter Heintzman. CPG has world class facilities and expertise for generating and analyzing ancient DNA data. The selected candidate will be expected to publish their results in peer-reviewed scientific journals and present their findings at international/national conferences.

Qualifications The applicant must have completed a master's 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 master's degree should either be awarded or very 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 the interdisciplinary topics of this PhD position, 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, osteological remains, (palaeo)ecology, ancient DNA, molecular biology, palaeogenomics, 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 abil-

ity 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=-21860&rmlang=UK . Closing date: 10 November, 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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StonyBrookU EvolutionaryBiology

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2024.

The department has a productive and diverse faculty working on a broad array of questions involving humans and primates, microbes, plants, vertebrate and invertebrate animals and whole ecosystems. Field locales span the globe from the tropics to the Arctic and Antarctic polar regions, as well as the uplands, wetlands, and coastal areas of Long Island and New York. Within a train ride of New York City, Stony Brook is a diverse campus, and we are implementing programs to build an even more diverse program in the future.

Upon admission, PhD students are guaranteed teaching assistantships, with additional support available through fellowships and research assistantships, as they become available. The deadlines for applications for the PhD program are December 1, 2023 (domestic priority deadline) and January 5, 2024 (final deadline). The priority deadline for the MA program is January 15, 2024; MA applications are considered on a rolling basis until April 15, 2024. Application fees may be forgiven for applicants that meet specific guidelines. Please contact us for more information.

It is highly recommended that applicants contact faculty and identify potential advisors before submitting an application. Faculty are more than willing to entertain questions about the general program and about their own specific labs and research. For questions or assistance with the application process, please e-mail our Graduate Program Coordinator, Melissa Cohen melissa.j.cohen@stonybrook.edu

A listing of graduate program faculty can be found here: https://www.stonybrook.edu/commcms/ecoevo/-_people/ More information about the application process can be found here: https://www.stonybrook.edu/-commcms/ecoevo/_program/application.php Robert Thacker <robert.thacker@stonybrook.edu>

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SwanseaU UK FrogReintroductionGenomics

Key Information Funding provider: Swansea University

Subject areas: Bioscience, conservation, population genetics/genomics, species reintroduction, amphibians

Project start date: October 2024

Supervisors: Dr Hazel Nichols, Swansea University (Primary supervisor- h.j.nichols@swansea.ac.uk) Dr Tamsyn Uren Webster, Swansea University (Secondary supervisor) Dr Jim Foster, Amphibian and Reptile Conservation Trust (External supervisor) Dr Tammy Shadbolt, Institute of Zoology (External supervisor)

Programme of study: PhD in Biological Sciences

Mode of study: Full-time

Project description: Reintroduction is a vital conservation tool, used to re-establish species following local extinction. However, only around 30% of reintroductions are successful, so a key priority is to understand how to boost success. We will work with project partners the Amphibian and Reptile Conservation (ARC) Trust

and the Institute of Zoology (IOZ) to enhance the reintroduction of the pool frog (Pelophylax lessonae); the UK's rarest amphibian. This species was reintroduced to the UK in 2005 following extinction in the 1990s, and populations are breeding, although there are issues with small population sizes and breeding pool abandonment. This PhD will take a comprehensive approach to understanding reintroduction success, combining ecological, physiological and behavioural data (collected in the field with ARC) with health, disease and genomic data (collected in conjunction with IOZ). We will (1) investigate whether genomic diversity is stable or reducing in the reintroduced populations (2) investigate links between genomic diversity, reproductive fitness and health (3) explore how pool frogs use different habitats within the reintroduction sites and (4) establish how pool management techniques can boost breeding pool use. The results will directly inform ARC in genomic and habitat management strategies in UK pool frogs and will more broadly shape future reintroduction projects in the UK and globally.

Eligibility: Candidates must have attained, or must be expected to attain, a first-class honours degree and/or a distinction at master's level. If you are eligible to apply for the scholarship (i.e. a student who is eligible to pay the UK rate of tuition fees) but do not hold a UK degree, you can check our comparison entry requirements (see country specific qualifications). Please note that you may need to provide evidence of your English Language proficiency. Due to funding restrictions, this scholarship is open to applicants eligible to pay tuition fees at the UK rate only, as defined byâ€UKCISA regulations.

Funding: This scholarship covers the full cost of UK tuition fees and an annual stipend at UKRI rate (currently Â£18,622 for 2023/24). Additional research expenses will also be available.

For further details and to apply, visit this link: https://www.swansea.ac.uk/postgraduate/scholarships/research/biological-sciences-sures-phd-informing-2024-rs464.php If you'd like to discuss the PhD position informally, please contact h.j.nichols@swansea.ac.uk

Hazel Nichols <h.j.nichols@swansea.ac.uk>

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UAlberta HostParasiteInteractions

Graduate position available in: Ecology and Evolution of Host-Parasite Interactions

A graduate research position (PhD program) is available in Dr. Lien Luong's research group (https://grad.biology.ualberta.ca/luong/) at the University of Alberta. Start date: September 2024.

Project background: Exposure to parasites can lead to changes in host behavior, morphology, or physiology, even in the absence of infection. These non-consumptive effects (NCE) can be understood in the context of the "ecology of fear". Potential projects include, but are not limited to investigating the: 1) state-dependent nature of NCE, 2) trait-mediated NCE, 3) NCE of parasites on host metabolism, and 3) evolutionary consequences of NCE. Successful applicants will investigate these questions using a fruit fly-mite system, applying concepts and techniques from behavioral ecology, physiological ecology, and/or experimental evolution. For more information: https://grad.biology.ualberta.ca/luong/ The Department of Biological Sciences at U of A is one of the largest and most scientifically diverse departments of its kind in Canada. We offer research-orientated, thesis-based graduate programs at both the MSc and PhD levels. Study programs are tailored individually to graduate student needs and emphasize interdisciplinary thinking. With ˜200 graduate students, 65 full-time faculty, excellent support facilities and ample research funding, a vibrant and exciting learning environment is provided. For more information about applying to the graduate program: http://www.biology.ualberta.ca/programs/graduate/prospective/ To learn more, please send a brief statement of your research experience/interest and a copy of your curriculum vitae to lluong@ualberta.ca. Application deadline is February 1, 2024.

Lien T. Luong, PhD (she/her) Associate Professor University of Alberta

Department of Biological Sciences

CW 405, Biological Sciences Bldg. University of Alberta Edmonton, AB T6G 2E9 Canada Office: (780) 492-1818 https://hocking.biology.ualberta.ca/labs/luong/ Lien Luong <lluong@ualberta.ca>

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UBasel Two PlantEvolution

Subject: PhD fellowship in Plant Evolutionary Ecology/Selection acting in nature

PhD fellowship in Plant Evolutionary Ecology/Selection acting in nature 100% / 1 March 2024 or negotiable

The group of Plant Ecology and Evolution, Department of Environmental Sciences at the University of Basel, Switzerland (https://duw.unibas.ch/en/ecoevo/), is looking for PhD students in the field of Plant Evolutionary Ecology.

Your position Our newly funded SNF project addresses limits to climate adaptation in alpine plants. The focus will be on the low and high end of species distribution, to assess how selection differs there as compared to the center of elevational distribution, and to predict responses to selection.

Your profile The fellowship is for applicants who have a Master degree in Ecology or Evolutionary Biology and experience with handling plants, and basic knowledge in statistical analysis. Furthermore, you should be eager to work in the Alps/field, do experiments, and become proficient in statistical analysis.

We offer you The fellowship is for up to 4 years. You will have the opportunity to enroll in the PhD Program in Plant Sciences (www.plantsciences.uzh.ch/en/teaching/-phdplantscience.html) of the Zurich- Basel Plant Science Center (PSC). The program provides training in frontier topics of plant sciences and opportunities to acquire technical and transferable skills for careers in- and outside of academia. In addition, the Graduate Center of the University of Basel (https://www.unibas.ch/en/-University/Administration-Services/Vice-President-s-Office-for-Education/Academic-Programs/Graduate-Center.html) offers various training formats for PhD students and organizes networking events. Finally, Basel is a mid-sized Swiss city, well connected and offering a broad range of cultural and recreational activities.

Application / Contact Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) their CV, (3) copies BSc and MSc transcripts, and (4) contact information of two references. We accept only online applications. Applications are welcome until the position is filled and will be reviewed starting December 15, 2023. For more information, contact Prof. Dr. Yvonne Willi (yvonne.willi@unibas.ch).

https://jobs.unibas.ch/offene-stellen/phd-fellowship-in-plant-evolutionary-ecology-selection-acting-in-nature/184103a3-5b3b-4ada-a6af-a9c9940df6e5
www.unibas.ch —-

Subject: PhD fellowship in Plant Diversity 100% / 1 February 2024 or negotiable

The group of Plant Ecology and Evolution, Department of Environmental Sciences at the University of Basel, Switzerland (https://duw.unibas.ch/en/ecoevo/-), is looking for a PhD student in the field of Plant Diversity/Ecology.

Your position The newly funded project by the Aptenia Foundation, Basel, addresses how the vegetation of calcareous grasslands has been changing and why some outcrossing plant species are under particular threat. The work involves vegetation surveys, time series analysis and experimental work on the role of mate versus insect pollinator limitation in causing low population growth rates in these species.

Your profile Applicants should have a Master degree in Plant Systematics or Ecology and expertise in identifying plant species in the field. Furthermore, you should be eager to work in the field, do experiments, and to become proficient in statistical analysis.

We offer you The fellowship is for up to 4 years. You will have the opportunity to enroll in the PhD Program in Plant Sciences (https://www.plantsciences.uzh.ch/en/-teaching/phdplantscience.html%22) of the Zurich-Basel Plant Science Center (PSC). The program provides training in frontier topics of plant sciences and opportunities to acquire technical and transferable skills for careers in- and outside of academia. In addition, the Graduate Center of the University of Basel (https:/-/www.unibas.ch/en/University/Administration-Services/Vice-President-s-Office-for-Education/-Academic-Programs/Graduate-Center.html%22) offers various training formats for PhD students and organizes networking events. Finally, Basel is a mid-sized Swiss city, well connected and

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UBayreuth SocialEffectsOnImmunity

Dear Colleagues,

I am looking for applicants to a newly funded PhD position (65% TV-L E13, DFG-funded) with the goal of investigating how social (parental care & social immunity) and non-social (microbial load & environmental fidelity) environmental factors affect and shape life-history, particularly immunity, in offspring of a relatively simple social system, namely Nicrophorus burying beetles. The position is supervised by Maximilian Kï¿½rner in Bayreuth, Germany.

More detailed Information on the project and how to apply can be found here: https://tinyurl.com/-PhDSocialEvolution2024 Application deadline: 22nd December 2023. Ideal starting date is March 2024 but can be postponed if need be.

I kindly ask you to forward this information to any interested parties! Feel free to direct informal inquiries to maximilian.koerner@uni-bayreuth.de

Thank you!

Cheers Max Kï¿½rner

Dr. Maximilian Kï¿½rner Evolutionary Animal Ecology University of Bayreuth Universitï¿½tsstraï¿½e 30 95447 Bayreuth NW I, Room 5.0.02.05 Tel.: +49 921 55 2745

"Kï¿½rner, Maximilian" <Maximilian.Koerner@uni-bayreuth.de>

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UBern Two MouseInbreeding

Two PhD positions (4 years) on the effects of inbreeding on robustness, resilience, and replicability in mice

At the Division of Animal Welfare (Prof. Hanno Wï¿½rbel, PD Dr. Bernhard Voelkl), University of Bern, Switzerland, we are seeking two PhD students to study how inbreeding affects developmental robustness and stress resilience in laboratory mice, and how this impacts the replicability of research findings and animal welfare. Both positions are part of a research project funded by the Swiss National Science Foundation (SNSF). The successful candidates will join a dynamic team of scientists and technicians involved in national and international research projects aimed to promote rigorous and responsible animal research. For further information on our team and research, visit our website (https://www.tierschutz.vetsuisse.unibe.ch/).

PhD student 1 will analyse large public databases to investigate the effects of homozygosity on phenotypic plasticity and on environmental and mutational robustness in laboratory mice and conduct a systematic review and meta-analysis on the effect of inbreeding on stress resilience and the replicability of research with mice.

PhD student 2 will experimentally test whether homozygous (inbred) mice are developmentally less robust and less resilient to stressors by assessing morphological asymmetries and behavioural, physiological, and cellular measures of stress using a representative population of inbred, F1 hybrid, and outbred mice.

Candidates need a university degree in biology or biomedical sciences and advanced training in statistics. Expertise in data analysis and quantitative genetics (for PhD 1), or morphometrics and experience with laboratory mice (PhD 2), will be a plus. We offer an attractive academic environment, opportunities for academic career development, and a competitive salary based on the Swiss National Science Foundation (SNSF) scheme.

Please send your application letter together with a motivation statement, your CV, copies of relevant study certificates, and contact details of one or two reference persons (reference letters are not required at this stage) merged into one single pdf-file to: hanno.wuerbel@unibe.ch.

The deadline for application is November 30, 2023. The position will be available from January 2024 or at your earliest convenience. Please indicate your preferred, as well as your earliest possible start date in the application letter.

For informal enquiries, please contact Prof. Hanno Wï¿½rbel: hanno.wuerbel@unibe.ch or PD Dr. Bernhard Voelkl: Bernhard.voelkl@unibe.ch.

Bernhard Voelkl Animal Welfare Division Vetsuisse Faculty, University of Bern Laenggassstrasse 120, CH-3012 Bern bernhard.voelkl@vetsuisse.unibe.ch

"bernhard.voelkl@unibe.ch" <bernhard.voelkl@unibe.ch>

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UBristol UK BrainEvolution

The Evolution of Brains and Behaviour Lab, at the School of Biological Sciences, University of Bristol, is currently advertising PhD projects as part of competitive funding schemes. These include:

1. Evolution of expanded learning and memory circuits Funding through the SWBio DTP program Deadline: 4th December 2023

This project will develop whole brain views of circuit variation in morphologically variable species of butterflies. You will combine new methods to characterise whole brain projectomics to reconstruct patterns of connectivity within and between brain regions, and overlap these data with information from the molecular identity of cell types. The project would suit a student with an interest in high throughput neuroanatomy, image analysis and a desire to develop excellent programming and computational skills. You will be supported to develop extensive expertise in insect neurobiology, imaging and image analysis, and quantitative analysis of cell and network morphologies.

2. Why remember where you've been? The cognitive ecology of spatial memory

Funding through the UoB Faculty of Life Sciences Black Heritage Scholarships (note this scheme is targeted at students of Black heritage from the UK)

Deadline: 8th January 2024

In this project you will investigate the evolutionary interactions between the costs and benefits of spatial memory, longevity and home range behaviour using a combination of field and modelling approaches. By modelling how the adaptive landscape is shaped by variation in these traits, you will create likely evolutionary pathways that support the evolution of spatial memory. Moving to the field, you will perform comparative assays of foraging behaviour, movement and dispersal to test these hypotheses, supported by additional experiments in insectary conditions. You will therefore receive broad and complementary training in critical computational, field and experimental skills needed to understand the evolution of animal behaviour. The project will suit a student passionate about natural variation in behaviour, with the flexibility to learn new analytical and modelling methods, but who enjoys and can thrive in the conditions of fieldwork in the Neotropics.

Additional projects within the broad field of evolutionary neurobiology and behaviour may be available through other funding opportunities, including co-tutelle PhDs with international parters, and China Scholarship Council funding. Please contact me if you would like to discuss this.

Contact: s.montgomery@bristol.ac.uk Website: www.shmontgomery.co.uk Dr Stephen Montgomery

He/him

Associate Professor in Evolutionary Neurobiology and Behaviour

School of Biological Sciences

University of Bristol

Email: s.montgomery@bristol.ac.uk

Tel: +44 117 455 2591 Twitter: @EBaBlab www.shmontgomery.co.uk For outreach and Widening Participation please contact: lsb-biologyoutreach@bristol.ac.uk

I am a friend of the BAME and LGBQT communities because I believe in equality for everyone

s.montgomery@bristol.ac.uk

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UEdinburgh BovineGenetics

Hi,

Join us at The Roslin Institute for a PhD and contribute to "Securing the genetic future of the cosmopolitan Holstein dairy breed".

This is a Roslin Foundation Studentship with a nice salary and consumables package.

The student will be supervised by a multi-institutional team (Gorjanc@Roslin, Tsairidou@GAAFS, Banos&Mrode@SRUC) and will have the opportunity to engage with key dairy breeding organisations in the UK (Coffey@EGENES, Winters@AHDB) and internationally (InterBull, CTLGH/ILRI).

More information at https://www.findaphd.com/-phds/project/roslin-foundation-studentship-securing-the-genetic-future-of-the-cosmopolitan-

holstein-dairy-breed/?p165434 or e-mail gregor.gorjanc@roslin.ed.ac.uk.

With regards!

University of Edinburgh Gregor Gorjanc, PhD The Roslin Institute Professor & Royal Society Industry Fellow Easter Bush @GregorGorjanc@twitter.com EH25 9RG @GregorGorjanc@fediscience.org Scotland, UK www.ed.ac.uk/roslin/highlanderlab The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dh?n ?ideann, cl?raichte an Alba, ?ireamh cl?raidh SC005336.

Gregor.Gorjanc@roslin.ed.ac.uk

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UExeter PesticideResistanceMicrobiome

4-year BBSRC funded PhD studentship on the role of microbiomes in the evolution of pesticide resistance, University of Exeter, Cornwall Campus (UK).

Further particulars: *https://tinyurl.com/wuddbhew* We are looking to recruit a PhD student to study the evolutionary interplay between insect hosts and their gut microbiome in the face of pesticide exposure. This PhD project allows you to learn a broad range of highly relevant skills, such working with the aphid model system /Myzus persicae/, mastering bioinformatics tools to analyse sequencing data on bacterial community change in response to pesticides, or learning how to develop your own computational models to simulate how microbial communities evolve pesticide resistance. We strongly value that PhD students have the freedom to shape their own projects, so you are encouraged to suggest different components that are closer to your interests.

The aphid /Myzus persicae/ is an extraordinary model system to study a wide range of evolutionary questions. Their largely clonal lifestyle makes them highly suitable for lab experiments and genomic analysis. Moreover, the lab of the second supervisor, Prof Chris Bass, has sampled >100 different strains of Myzus persicae from across the world, allowing us to study the impact of host genetic background, how differences in feeding behaviour affects microbiome composition or transmission of microbiota between individuals.

The project is based at the University of Exeter's beautiful Penryn campus in Cornwall (UK). You will join the Centre for Ecology and Conservation, which is a hotbed for research on evolution, behaviour, microbial ecology and genomics. The project also involves a collaboration with leading researchers on insect microbiota (Drs Tim Mauchline, Ian Clark and David Withall) at Rothamsted Research, in Harpenden (UK).

Eligibility: up to 30% of the studentships available in our SWBIO doctoral training programme are available to international students. Please check eligibility criteria here: https://www.swbio.ac.uk/programme/eligibility/ The closing date for applications is *midnight* on *Monday, 4 December 2023,*—Interviews will be held between *1st and 15th February 2024*.

—If you want to know more about this studentship, please get in touch:

Dr Bram Kuijper, a.l.w.kuijper@exeter.ac.uk

Prof Chris Bass Dr Tim Mauchline

Dr Ian Clark

Dr David Withall

Bram Kuijper <a.l.w.kuijper@exeter.ac.uk>

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UFlorida GeneticsGenomics

The Genetics & Genomics (G&G) Ph.D. program at the University of Florida < http://ufgi.ufl.edu/grad-program/ > is accepting applications for graduate students for admission in Fall 2024. We are a interdisciplinary program with 200+ faculty in 8 colleges and 64 departments. Our faculty < http://ufgi.ufl.edu/ufgi-faculty-directory/ > conduct a broad range of research projects including biomedical research, gene therapy, metagenomics, plant breeding and genetics, microbial genetics, population studies, and ecology to name just a few.

Apply here! < http://ufgi.ufl.edu/grad-program/-admissions/ >. If you are applying for the Ph.D. in Genetics & Genomics, please also apply for our new M.S. in Genetics & Genomics. The application deadline is December 1, 2023 for admission to the Fall 2024 class. Prospective Ph.D. students should contact potential faculty advisors in advance of applying to discuss research interests and relevant qualifications.

Here are some recent articles on UF Genetics Institute faculty in UF's research magazine, Explore: * UF Genetics Institute new director, Dr. Tom Burris <https://explore.research.ufl.edu/-innovation-is-in-his- dna.html> * Father's illness drives Dr. Eric Wang <https://explore.research.ufl.edu/-this-geneticists-goal-cure- the-disease-that-runs-in-his-family.html> to find a cure for myotonic dystrophy * G&G graduate student Shandra Trantham <https://-explore.research.ufl.edu/no-time-to-be- patient.html>, researcher and patient, searches for cures for neurodegenerative diseases * Biomedical engineering faculty Drs. Josephine Allen and Erika Moore <https://-explore.research.ufl.edu/revealing-the-ancestry- blindspot.html> collaborate with Anthropology faculty Dr. Connie Mulligan to investigate how ancestry can shape health disparities * G&G alum and UF faculty Dr. Marcio Resende <https://explore.research.ufl.edu/heres-how-ai-could-bring- better-fruit-to-your-table.html> uses AI to make food healthier and tastier * Microbial ecologist Dr. Julie Meyer <https://-explore.research.ufl.edu/reef- relief.html> is developing probiotics to save coral reefs

UF has the following funding opportunities that you may want to consider: * McKnight Doctoral Fellowship < https://graduateschool.ufl.edu/-gss/funding/mcknight/ > which funds stipend, tuition, and fees * Board of Education Summer Fellowship <https://catalog.ufl.edu/UGRD/previous-catalogs/2019- 2020/graduate/financial-aid/> which provides funds and networking opportunities for new graduate students as well as other fellowship opportunities

Students for the G&G Ph.D. typically graduate in 5 years and are funded with a combination of research assistantships, teaching assistantships, and fellowships.

The University of Florida is one of the top 10 public universities in the country with a university-wide commitment to genetic research. The University of Florida Genetics Institute (www.ufgi.ufl.edu) is a state-of-the-art research building intended to enhance opportunities for collaboration. Gainesville is located in north central Florida (away from the hurricanes!), with average temperatures ranging from 45F to 90F.

Connie J. Mulligan, PhD Coordinator, Genetics & Genomics Graduate Program 2033 Mowry Rd, PO Box 103610 | University of Florida | Gainesville, FL 32610-3610 cmulligan@ufl.edu

"Connie J. Mulligan" <cmulligan@ad.ufl.edu>

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UFlorida LepidopteraEvolution

Graduate Student Assistantships in Lepidoptera Research

McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History University of Florida

The McGuire Center for Lepidoptera and Biodiversity (MGCL) at the Florida Museum of Natural History (FLMNH), University of Florida (UF), is currently accepting applications from prospective students interested in earning a Master's or Ph.D. degree from the Department of Biology, Entomology and Nematology Department, or other appropriate UF department, with a research emphasis on butterflies and moths. The MGCL will provide a Graduate Research Assistantship (stipend + tuition waiver) to the successful candidate for a period of two years, contingent on continuing successful progress towards their degree, starting in Fall 2024. Priority will be given to students seeking a Master's degree.

Potential fields of Lepidoptera research include conservation, ecology, evolution, genomics, physiology, and systematics, among others.

For application details see: https://-www.floridamuseum.ufl.edu/mcguire/research/-assistantship-fall2024/ Please send these materials as a single PDF file to Dr. Keith Willmott (willmott@flmnh.ufl.edu), with the subject line "Application for McGuire Assistantship". The deadline for applications is 11:59 pm EST, December 15th, 2023. Please send any questions to kwillmott@flmnh.ufl.edu

Akito Y. Kawahara Director, Curator, and Professor McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History University of Florida Powell Hall, 3215 Hull Road Gainesville, FL 32611-2710 USA Tel: 352.273.2018 Fax: 352.392.0479 Email: kawahara@flmnh.ufl.edu http://www.flmnh.ufl.edu/mcguire/kawahara/ "Akito Y. Kawahara" <kawahara@flmnh.ufl.edu>

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UGeorgia MarineMicrobiomes eDNA

The Bik Lab at the University of Georgia is recruiting three PhD students for entry in Fall 2024. Each position has at least three years of guaranteed funding through multiple National Science Foundation grants (including an NSF CAREER award). PI Holly Bik has a joint appointment between the Department of Marine Sciences and the Institute of Bioinformatics, and prospective PhD applicants can join the lab through either program (Marine Sciences: https://www.marsci.uga.edu/phd-marine-science, IOB: https://iob.uga.edu/masters-phd/). Further information about the Bik Lab, including recent publications and general research areas can be found at: https://www.biklab.org. The three available PhD projects are as follows:

1) Antarctic marine nematode taxonomy and phylogenomics. This project will evaluate evolutionary relationships between Antarctic meiofauna and marine nematode fauna in other ocean basins, with an emphasis on comparisons between deep-sea vs. shallow-water phylogenetic lineages. Work will use integrated morphological and molecular techniques (DNA barcoding, -Omics sequencing) to identify putatively cosmopolitan nematode taxa, endemic Antarctic lineages, and cryptic species complexes. Prospective applicants should have a Master's degree in Nematology or equivalent practical experience with microscopy identifications of free-living marine nematodes. International applicants with nematode taxonomy skills are especially encouraged to apply.

2) Advancing eDNA metabarcoding surveys of marine ecosystems. This project will involve work with two interdisciplinary teams focused on the development of autonomous underwater platforms for eDNA surveys, focused on pelagic and benthic sampling, respectively. The PhD student will participate in ship-based fieldwork along the MA and CA coasts, using eDNA sampling to test hypotheses about pelagic food webs and benthic microbial responses to low oxygen concentrations. Prospective applicants should have research interests in the areas of environmental metabarcoding (16S/18S rRNA or other loci), molecular ecology, and bioinformatic data analysis.

3) Functional characterization of nematode-associated microbiomes. This project will evaluate the ecological roles of nematode-associated bacterial symbionts, including their putative contributions to global biogeochemical cycling (of Carbon, Nitrogen, Sulfur) and host fitness (e.g. antimicrobial properties or protection against sulfide toxicity). Prospective applicants should have research interests in the areas of microbial metagenomics, bioinformatic analysis, and/or classical microbiology (isolation and culturing protocols, FISH and confocal microscopy, etc.).

Interested applications should email their current CV and a brief statement of research interests (e.g. one paragraph in an email describing their interest in the Bik Lab) to hbik@uga.edu. Prospective PhD applicants whose skills and interests are a good fit with the lab will be invited to a follow-up Zoom call to discuss potential projects in more detail with PI Holly Bik.

Any interested student who is facing financial hardship with graduate program application fees should contact PI Holly Bik for information about fee waivers. Please do not let the financial hurdle prevent you from applying to a graduate position in the Bik Lab - we can help find a solution, do not be hesitant to ask. The Bik Lab mentoring philosophy and training/mentoring portfolio can also be found here: https://www.biklab.org/join-the-lab All UGA graduate program applications are due by December 31, 2023 to ensure full consideration for the above PhD positions.

Holly Bik Associate Professor Department of Marine Sciences and Institute of Bioinformatics University of Georgia 325 Sanford Drive Athens, GA 30602

Email: hbik@uga.edu

Lab: https://www.biklab.org/ < http://biklab.github.io/ > Personal: https://www.hollybik.com/ Twitter: https://twitter.com/hollybik Holly M Bik <hbik@uga.edu>

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UGuelph AdaptationToGlobalChange

MSc / PhD student in the Bernhardt Lab at the University of Guelph: Adaptation to Global Change

Bernhardt Lab www.bernhardtlab.org Department of Integrative Biology, University of Guelph

Details Annual salary: Minimum stipends of $30,000 -

$32,000 per year Starting date: January, May or September 2024 Closing date: November 30, 2023

The Bernhardt Lab is looking to recruit two fully funded graduate students (MSc or PhD) to join our group. Our work combines 'curiosity-inspired' and 'use-driven' research, with the aim of advancing fundamental knowledge and helping inform conservation planning. The goals of our research are 1) to predict biological responses to environmental change at multiple scales; 2) to identify the mechanisms by which biodiversity influences human health via fisheries and seafood; and 3) to harness ecological science to contribute to conservation and management solutions that benefit people and nature. We use a broad quantitative and empirical toolkit, working across sub-disciplines (physiology, evolutionary ecology, metabolic ecology, environmental data science) and combining theoretical, experimental, and comparative analyses with the aim of generating a more predictive understanding of biospheric change and implications for human well-being. We are recruiting for two projects listed below, but also welcome applicants with other interests.

1) Seafood in a changing world (MSc or PhD): Foods from aquatic sources - 'blue foods' (i.e., seafood including finfish, shellfish and seaweeds) are a major source of essential nutrients in the human diet and contribute to food security globally, but they are threatened by climate change. Using approaches from organismal physiology and metabolic ecology, we will use lab and field experiments to study the potential for environmental change to alter the nutritional benefits that we derive from 'blue foods', and what those changes mean for human health and well-being.

2) Thermal adaptation in phytoplankton (MSc or PhD): A major challenge in ecology is to predict whether populations will persist in the face of a changing climate. Will species adapt to changing patterns of temperature and nutrient supply quickly enough to persist within their current geographic ranges? We will use experimental evolution in the lab to study what limits or facilitates adaptation to changing thermal and resource regimes in aquatic ecosystems.

Applicants who are excited about working with phytoplankton or aquatic invertebrates are especially encouraged to apply, but we welcome applicants who work in a range of systems (i.e., we are beginning to work with fungi and agricultural systems as well!). More information: https://www.bernhardtlab.org/research . What we offer: We are a collaborative, supportive, and diverse group that is dedicated to advancing science and conservation alongside justice and equity. We value diversity and community. We work to actively create an environment where everyone feels supported to be curious, learn new skills, and do projects that they are excited about. We offer opportunities to lead independent research and work collaboratively in teams in an inclusive mentoring environment. We provide opportunities to develop a range of skills including lab and field skills, quantitative and theoretical tools, reproducible research practices, science communication and community engagement. How to apply: To apply, please fill out this form by November 30, 2023 (https://tinyurl.com/bernhardt-lab-form). I look forward to hearing from you! For more info, see our website < https://www.bernhardtlab.org/join-us > (https://www.bernhardtlab.org/) questions can be directed to joey.bernhardt@uoguelph.ca

Joey Bernhardt, PhD (she/her) Assistant Professor Department of Integrative Biology University of Guelph https://www.bernhardtlab.org/ Joey Bernhardt <joey.bernhardt@uoguelph.ca>

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UHouston EcologyEvolutionaryBiology

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) welcomes applications for its graduate program in Ecology & Evolutionary Biology for Fall 2024. The following faculty in the areas of Ecology and Evolutionary Biology have opportunities available for their labs:

Molly Albecker (maalbecker@uh.edu): Eco-evolution and physiology Ricardo Azevedo (razevedo@uh.edu): Evolutionary genetics and theory Blaine Cole (bcole@uh.edu): Evolution and social behavior Kerri Crawford (kmcrawford3@uh.edu): Community ecology Jacob Daane (jdaane@uh.edu): Evolutionary genetics and genomics Tony Frankino (frankino@uh.edu): Evolution of complex traits Dan Graur (dgraur@uh.edu): Molecular evolutionary bioinformatics Erin Kelleher (eskelleher@uh.edu): Selfish DNA Rich Meisel (rpmeisel@uh.edu): Evolutionary genetics and genomics Martin Nuï¿½ez (nunezm@uh.edu): Invasion biology Steve Pennings (spennings@uh.edu): Community ecology Adam Stuckert (astuckert@uh.edu): Ecological genomics Rebecca Zufall (rzufall@uh.edu):

Evolutionary genetics

If you are interested, you should look at the relevant faculty members' web sites and then contact them directly for more information:

http://www.uh.edu/nsm/biology-biochemistry/-people/faculty/faculty-alpha/ For more information regarding the Evolutionary Biology and Ecology graduate program at UH see:

http://www.bchs.uh.edu/graduate/prospective-students/ http://www.uh.edu/graduate-school/-prospective-students/how-to-apply/ If you have any questions regarding the application process, please contact:

Ms. Rosezelia Jackson (biograd@central.uh.edu)

The deadline for full consideration is January 1st, 2024. Evaluation will continue after that date, but students are encouraged to apply as early as possible.

Ricardo B. R. Azevedo, PhD Professor Dept. Biology & Biochemistry University of Houston 369 Science & Research 2 Houston, TX 77204-5001 Tel: 713-743 4149 Fax: 713-743 2636 Email: razevedo@uh.edu

"Azevedo, Ricardo" <razevedo@Central.UH.EDU>

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UHull UK EcoEvoAmphibianInfection

In the late 1980s members of the public in the UK began reporting unusual mass mortalities of common frogs (Rana temporaria). These were caused by a virus from the FV3 group of ranaviruses, and FV3 ranaviruses are now recognised as a significant threat to amphibians in the UK, especially to common frogs which have suffered substantial population declines in the UK because of infection with these viruses. There have been multiple introductions of these viruses to the UK, and increasing temperatures in the UK appear to be exacerbating disease while human activities continue to redistribute the virus. There are many important questions which need to be answered if we are to predict the future of the epidemic and manage it to achieve the best outcomes for Britain's amphibians.

This studentship will use cutting-edge approaches to understand and predict the ranavirus epidemic in Britain, including a survey of both ranavirus and amphibian communities using environmental DNA (eDNA) techniques, coupled with a recently developed non-lethal test for infection of individual animals. Citizen scientists will be recruited to collect water samples for eDNA analysis and to provide reports of amphibian mortality, allowing us to build a detailed picture of the spatio-temporal structure of both the amphibian community and the extent and dynamics of the ranavirus epidemic. The unprecedented insight this will give will enable the student, for example, to compare the structure of the community and the pattern of the epidemic between urban and rural environments, and to understand how infection varies with the community of amphibians.

Despite the conservation importance of these viruses, there has been little successful epidemiological modelling of the host-virus system, and we are currently unable to predict the future shape of the epidemic with any confidence, nor the potential for evolution of tolerance or resistance in the amphibian population. For the second part of the project, therefore, the student will construct and analyse a detailed simulation model of amphibian communities and ranavirus infection in a spatially structured landscape, based on data from the survey plus further data from ongoing work on ranavirus occurrence in SE England. Modelling the epidemic into the future will allow the student to understand the likely effects of important aspects of the epidemic such as the changes in host age structure arising from the mortality caused by the ranavirus and differences in population mixing in urban and rural environments. A focus of the modelling will be asking questions about management options which might improve outcomes for amphibians; in particular, whether there are potential management interventions that would hasten the evolution of resistance and adaptation to the virus in common frogs.

The supervisory team for this project is ideal: Prof. Knell has experience in epidemiological modelling and in the use of eco-evo agent based models. Dr Lawson-Handley brings considerable expertise in aquatic eDNA sampling and analysis of ecological communities. Additional supervision from Prof. Garner (Institute of Zoology) will bring one of the leading authorities on ranavirus infection in UK amphibians into the project.

We are seeking a dedicated and enthusiastic student with a strong interest in conservation. Either coding or mathematical experience will be a benefit, if not then a strong interest in learning modelling techniques is essential. The student will gain important skills in eDNA analyses, in handling and analysing big datasets, in coordinating citizen science studies and in developing and interpreting simulation models.

https://panorama-dtp.ac.uk/research/eco-evo-dynamics-of-ranavirus-infection-in-uk-amphibian-communities/ Contact: Prof. Rob Knell, r.j.knell@hull.ac.uk

Application deadline: 5 Jan 2024

Darron Cullen <D.Cullen@hull.ac.uk>

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UHull UK EcolEvolutionaryBiology

NERC Panorama Doctoral Training Partnership in Environmental Science

Application deadline: 5 January 2024

The NERC Panorama Doctoral Training Partnership (DTP) encompasses three broad themes in:â€Atmosphere and Climate, Earth Processesâ€and theâ€Living World.â€Panorama prepares the next generation of biological science leaders for industrial, governmental, NGO and academic careers, and provides exceptional training across the range of environmental and evolutionary biology in world-class research teams through an innovative, exciting and multi-disciplinary programme. The programme will equip students with the skills necessary to understand the complex interactions within the Earth system, so they can contribute to the development of scientific, policy and industrial solutions for the national and global scale problems we face in the decades to come.

Panorama DTP Research Scholarships at the University of Hull, UK:

Assessing the impacts of floodplain rehabilitation on fish population dynamics: a novel approach using conventional fish surveys, biotelemetry and biochemical analysis. https://panorama-dtp.ac.uk/research/assessing-the-impacts-of-floodplain-rehabilitation-on-fish-population-dynamics-a-novel-approach-using-conventional-fish-surveys-biotelemetry-and-biochemical-analysis-2/ Contact Dr. Andy Nunn, a.d.nunn@hull.ac.uk

Happy wound healing: investigating the effects of Prozac on fish skin wound healing. https://-panorama-dtp.ac.uk/research/happy-wound-healing-investigating-the-effects-of-prozac-on-fish-skin-wound-healing/ Contact: Dr. Pedro Beltran-Alvarez, p.beltran-alvarez@hull.ac.uk

How does the keratinous beak of birds affect their functional performance? https://panorama-dtp.ac.uk/-research/how-does-the-keratinous-beak-of-birds-affect-their-functional-performance/ Contact: Dr. Jen Bright, j.bright@hull.ac.uk

Nurture versus nature in locusts - can we control their swarming behaviour? https://panorama-dtp.ac.uk/-research/nurture-versus-nature-in-locusts-can-we-control-their-swarming-behaviour/ Contact: Dr Darron Cullen, d.cullen@hull.ac.uk

Preventing metal infiltration from accelerated WEEE contamination via leaching cryptocurrency farming waste. https://panorama-dtp.ac.uk/research/-preventing-metal-infiltration-from-accelerated-weee-contamination-via-leaching-cryptocurrency-farming-waste/ Contact: Dr. Martin Taylor, martin.taylor@hull.ac.uk

Understanding migration success in Atlantic Salmon. https://panorama-dtp.ac.uk/research/understanding-migration-success-in-atlantic-salmon/ Contact: Dr. Domino Joyce, d.joyce@hull.ac.uk

Utilising Non-Recyclable Waste for Effective Carbon Capture. https://panorama-dtp.ac.uk/research/-utilising-non-recyclable-waste-for-effective-carbon-capture/ Contact: Dr. Amthal Al-Gailani, a.z.al-gailani@hull.ac.uk

Rooting the Northern Forest: soil and woodland dynamics across northern England. https://panorama-dtp.ac.uk/research/rooting-the-northern-forest-soil-and-woodland-dynamics-across-northern-england/ Contact: Dr. M. Jane Bunting, m.j.bunting@hull.ac.uk

Seeing in the dark: the fluid dynamics of sediment-rich flows. https://panorama-dtp.ac.uk/research/seeing-in-the-dark-the-fluid-dynamics-of-sediment-rich-flows/ Contact: Dr. Rob Thomas, r.e.thomas@hull.ac.uk

Application deadline: 5 January 2024.

Darron Cullen <D.Cullen@hull.ac.uk>

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UIllinois UrbanaChampaign EvolEcolBehav

The Department of Evolution, Ecology, and Behavior (EEB) at the University of Illinois is accepting applications for graduate students for admission in Fall 2024. We accept applications for both the Master's (M.S.) and Doctor of Philosophy (Ph.D.) degrees. We are an interactive group with expertise in evolution, ecology, behavior, bioinformatics, conservation, genetics & genomics, physiology, neuroscience, endocrinology, and morphology. Students take many approaches to their studies including field work on whole organisms, genomics/bioinformatics, lab experimentation, and theory.

The department of Evolution, Ecology and Behavior is housed within the School of Integrative Biology, home to over 30 faculty working in ecology, behavior, conservation and evolution. The University of Illinois at Urbana-Champaign offers state-of-the-art research facilities such as the Institute for Genomic Biology (IGB), the Beckman Institute (several research themes including bioimaging and Molecular Science and Engineering) and the Grainger College of Engineering. Urbana-Champaign is a pleasant, affordable, university town with good music and restaurants. It has its own airport and is close to three major U.S. cities (Chicago, Indianapolis, St. Louis).

Students for the Ph.D. are typically funded for 5-years with a combination of fellowships, research assistantships, and teaching assistantships. The deadline for consideration is December 15, 2023. However, prospective students should contact potential faculty advisors well in advance of applying to discuss research interests and relevant qualifications. For further information, see https://sib.illinois.edu/eeb/graduate_admissions . Please note that we have many types of fellowships including fellowships to help recruit students who come from groups that are under-represented in science.

The following faculty are actively recruiting students:

Julian Catchen - Population genomics and the evolution of genome architecture. We are a computational group doing work in several organisms including fishes, birds, and honeybees. We have projects comparing ancient and modern DNA, coloration of fishes, and the genome architecture and function of mitochondria. We are also actively at work on several software packages related to RADseq and Stacks as well as conserved synteny. My students typically focus on a hybrid of computational and biological topics in their research aims. Write jcatchen@illinois.edu with questions, also happy to discuss options in an online meeting.

Becky Fuller - Evolutionary biology of fishes; evolution of color patterns/color vision; color vision in bass; speciation as a function of adaptation and genomic rearrangements; speciation in darters and killifish

Dan Miller - Evolution of developmental sensory biology in mammals; biomarkers of brain organization; mechanisms of brain plasticity; evolution of intelligent systems; email millerdj@illinois.edu.

Philip Anderson andersps@illinois.edu

"Anderson, Philip S L" <andersps@illinois.edu>

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ULaval Quebec CaribouGenomics

PhD fellowship in ecology and genomics (Université Laval, Québec, Canada) Microbiota, nemabiota and health in caribou and other northern ungulates

Caribou Ungava (www.caribou-ungava.ca) is a vast research program focusing on the ecology of migratory caribou populations and associated species in a context of climatic and anthropogenic change. The aim of this program is to identify the factors influencing variations in the abundance of populations of the two large migratory caribou herds in northern Quebec and Labrador, which have recently experienced drastic declines. In this context, we are looking for a PhD student interested in getting involved in a project on the microbiota of caribou, muskoxen and moose. This research project aims to gain a better understanding of the biotic and abiotic factors underlying the homeostasis of the interaction between these ungulates and their community of microbial symbionts (microbiota).

Issue: In northern regions, environmental changes are altering biological systems, leading to growing concerns about the health and persistence of many populations and species. Animal performance can be affected by changes in the network of interactions between organisms. Caribou, muskoxen and moose show contrasting demographic trends, either expanding locally (muskoxen, moose) or declining (caribou). Symbiotic microbial com-

munities associated with animals (microbiota) exert a major influence on the health of their hosts and, consequently, on their population dynamics. Intestinal nematodes can also alter the composition of the microbiota (e.g. diversity, dysbiosis), with consequent effects on host health. It is therefore essential to quantify the influence of environmental factors (diet) and internal factors (nemabiota, genotype, physical condition) on changes in the microbiota of populations. The study of the health of northern ungulate populations must therefore consider the composition of the diet in a diet-microbiota-nemabiota interaction. Objectives: Evaluate how the diet-microbiota-nemabiota interaction affects the fitness and population dynamics of three ungulate species (caribou, muskox, moose). We will test the extent to which individual species, sex and age class, as well as population demographic trajectory, influence microbiota and nemabiota composition. We predict that the diversity of plants consumed positively influences the composition of the microbiota, which in turn influences the composition of the nemabiota. Approach: We will base our analysis on the monitoring of migratory caribou (n=0), woodland caribou (n=0), moose (n˜80), and muskoxen (n˜150) captured between 2017 and 2024. We will analyze the microbiota (buccal swab), nemabiota (feces) and diet (feces) for all species, as well as the multi-loci genotype (ear biopsy) of caribou. The taxonomic composition of the microbiota, nemabiota and diet will be characterized using a molecular barcoding approach (i.e. metataxonomy). Host genetic diversity (caribou only) will be documented using a recently developed caribou microarray. Mass will be used as a measure of physical condition for all animals.

Director : Nicolas Derome (Département de biologie, U. Laval) Co-director : Claude Robert (Faculté des Sciences de l'agriculture et de l'alimentation, U. Laval) Collaborators : Joelle Taillon (MELCCFP), Glenn Yannic (U. Savoie), Steeve Côté (U. Laval) Start: between May and September 2024.

Grant: 21 000$/year stipend, 4 years.

Skills required:

MSc in biology, biochemistry, microbiology or related discipline; Be rigorous, autonomous and have scientific writing skills; First author of at least one paper in a refereed journal;

A basic knowledge of French and/or willingness to learn it;

Ability in genomic analysis, metataxonomy (e.g. 16S metabarcoding), or in the R environment will be considered an asset.

To apply, please send by 31/01/2024 a cover letter briefly explaining your interests, a CV and a copy of your university transcripts, along with the contact details of three references to:

Nicolas Derome, Département de biologie, Université Laval, Québec (Québec) Canada nicolas.derome@bio.ulaval.ca

Catherine Ãvelyne Bajzak <catherine.bajzak@bio.ulaval.ca>

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ULisbon EvolutionaryEcol

A fully funded 4-year PhD position is available at the University of Lisbon (cE3c/FCUL) in the Adaptation to Complex Environments research group, starting at the beginning of 2024. The PhD project is to be developed within the framework of an ERC starting grant (DYNAMICTRIO), but we welcome the selected candidate to contribute their own perspectives and shape the focus and objectives of their PhD research.

The Adaptation to Complex Environments group focuses on how interactions between species shape the evolutionary trajectory and stability of systems with two or more levels of biological interactions. We use an experimental tri-trophic ecosystem wherein rapid-cyclingBrassica rapaplants are attacked by spider-mites (Tetranychusurticae), while predators (Amblyseiusswirskii) prey on the spider-mites. The aim of the DYNAMICTRIO project is to quantify the impact of ecosystem stability on evolution and to test how evolutionary changes may affect resilience to perturbations. We use a combination of tools, including experimental evolution, theoretical modelling, phenotypic assays, and genomic analyses.

We seek a highly motivated PhD candidate who is interested in working at the interface between ecology and evolution and is enthusiastic about working with a diverse set of organisms. The candidate should be a flexible team player, able to adapt to changing circumstances and new tasks, and open to collaborate with colleagues from different backgrounds. The applicant must hold a degree in biology, should have completed (or will soon do so) a Msc degree in evolutionary biology or ecology (or in a related field), and should have experience in planning and executing laboratorial experiments.

To apply for this position, please followthe link provided

below:

https://www.euraxess.pt/jobs/164423 The following documentation needs to be provided in support of the application:

-Curriculum vitae.

-Certificate of completion of previous degree.

-Motivation letter.

-Contact information for two academic references.

Deadline: 7thDecember 2023

For any queries please contact:irfragata@fc.ul.pt

This position is funded by an ERC starting grant: https://shorturl.at/vyGP8 . For more information about the group at cE3c/FCUL: https://-/ce3c.ciencias.ulisboa.pt/sub-team/ace Inï¿½s Fragata,Assistant Professor Adaptation in Complex Environments Lab, cE3c, Centre for Ecology, Evolution and Environmental Changes http://-ce3c.ciencias.ulisboa.pt/ Faculdade de Ciï¿½ncias da Universidade de Lisboa http://www.fc.ul.pt/ Campo Grande Lisboa

Inï¿½s Fragata <irfragata@fc.ul.pt>

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ULiverpool DaphniaEvolution

Liverpool PhD position on the ecological and evolutionary consequences of nanoplastic pollution in the water flea, Daphnia magna Starting October 2024

Background: Plastic pollution is a pressing global problem. It is estimated that 60% of all plastic ever produced has been released into the environment. Waste plastic breaks down to form microplastics (< 5mm) and nanoplastics (1-100nm) that when ingested, potentially cause damage to ecosystems and human health. Nanoplastics are especially toxic because their small size allows them to enter tissues microplastics cannot reach, even passing through cell membranes. Nanomedicine has shown us that the properties of engineered nanoparticles (size, shape, charge, polymer) greatly alter their biological impact and fate. However, the effect that nanoplastic properties have on their toxicity is unknown. This is because studies to date have been conducted in laboratories using 'model' polystyrene nanoparticles, which are not necessarily relevant to nanoplastic pollution in the wild.

Objectives: The aim of this project is to engineer ecologically relevant nanoplastic particles to test the hypothesis that particle properties influence their toxicity, capacity for bioaccumulation, and capacity for transmission across generations. Working with the model organism Daphnia magna, you will test for genetic variation in responses to nanoplastic exposure, providing a first step towards understanding the potential for evolutionary rescue in response to nanoplastics. You will then compare the ecological and evolutionary dynamics of replicated Daphnia populations exposed to nanoplastic treatments, to better understand the significance of nanoplastic pollution in natural environments.

Novelty and Timeliness: Nanoplastic pollution may pose a major threat to biodiversity and human health. This unique cross-disciplinary project enables us to synthesize ecologically relevant nanoparticles and test their biological significance in an ecologically relevant, keystone species. The results collected are expected to be novel with implications for policy, industry, and conservation strategies.

HOW TO APPLY

Notes and details of how to apply are available here: https://accedtp.ac.uk/acce-dtp-phd-opportunities-at-university-of-liverpool/ . All applicants to ACCE must complete the ACCE personal statement proforma. This is instead of a normal personal/supporting statement/cover letter. The proforma is designed to standardise this part of the application to minimise the difference between those who are given support and those who are not.

The ACCE DTP is committed to recruiting extraordinary future scientists regardless of age, ethnicity, gender, gender identity, disability, sexual orientation or career pathway to date. We understand that commitment and excellence can be shown in many ways and have built our recruitment process to reflect this. We welcome applicants from all backgrounds, particularly those underrepresented in science, who have curiosity, creativity and a drive to learn new skills.

Availability: Open to students worldwide

Who to contact: Informal enquiries may be made to s.plaistow@liverpool.ac.uk

Funding information Funded studentship NERC ACCE DTP in Ecology and Evolution, programme starts October 2024. UKRI provide the following funding for 3.5 years: - Stipend (2022/23 UKRI rate 17,668) - Tuition Fees at UK fee rate (2022/23 rate 4,596) - Research support and training grant (RTSG)

Note - UKRI funding only covers UK (Home) fees (4,596 at 2022/23 rate). A limited number of international fee bursaries will be awarded on a competitive basis. However, if selected International and EU fee rate candidates may need to cover the remaining amount of tuition fees by securing additional funding. International fees for 2022/23 entry were 25,950 (full time) per annum.

Supervisors Dr Stewart Plaistow Dr Howbeer Muhamad Ali Dr T McDonald

"Plaistow, Stewart" <stewp123@liverpool.ac.uk>

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UMississippi EvolutionaryBiology

The Zee Lab at the University of Mississippi is seeking motivated and curious students with interests in evolutionary ecology for enrollment in the Fall 2024 semester.

We are interested in research topics at the intersection of community ecology and evolutionary biology, such as the evolution of species interations and evolution in multispecies communities. We approach our research using both laboratory experimental evolution with microbes and modeling approaches. Candidates will encouraged to develop their own independent research interests.

The Department of Biology is a broad department with faculty research foci spanning the levels of biological organization and the taxonomic tree of life. The University of Mississippi is located Oxford, MS, a college town in northwest Mississippi.

Interested candidates should email Peter Zee (zee@olemiss.edu).

Peter Zee zee@olemiss.edu

Peter Christopher Zee <zee@olemiss.edu>

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UMissouri StLouis EvoDevoPlantReproduction

Are you fascinated by the diversity of plants and their reproductive structures? Is your goal a career in academia, biotechnology, agriculture, or government agencies in the most botanically focused city in the world? The Marchant Lab is opening at the University of Missouri - St. Louis and is recruiting PhD students to start Summer or Fall 2024. We are particularly interested in students with a background in plant biology, cellular biology, developmental biology, evolution, bioinformatics, or conservation; however, highly self-motivated students with a passion for botany and science are welcome to get in touch.

Who we are: The Marchant Lab (https://-www.marchantlab.com/) is an innovative and collaborative research group at the forefront of both applied and basic plant sciences. We use single-cell RNA-sequencing (scRNA-seq), comparative genetics/genomics, and digitized herbarium specimens to investigate questions in plant reproductive biology, development, ecology, and evolution using both model and non-model plant systems. We are particularly interested in the biology and evolution of anthers. In the lab you will pursue a primary project plus there are ample opportunities for collaborative projects within the lab and with diverse cooperators. The lab atmosphere is supportive, inquisitive, and committed to providing each student with the most effective training cognizant with individual goals.

Where we are: We are based in the Biology Department at the University of Missouri - St. Louis (UMSL). With its world-class universities (UMSL, Washington University, St. Louis University), research institutions (Donald Danforth Plant Science Center, Missouri Botanical Garden), and agricultural companies (Bayer, Pivot Bio, Yield Lab), St. Louis has the highest concentration of plant science PhDs in the world and is an ideal setting for anyone interested in plant biology. St. Louis is one of the most livable cities in the US and was recently ranked the top city to start a career in.

If you are interested in joining the lab, email Dr. Marchant (dm9vh@umsl.edu) your CV and a brief statement on your background and research interests.

Applications for the UMSL Biology PhD program are due by December 15th and applications for the Masters

program are considered on a rolling basis. Teaching and/or research assistantships are guaranteed for PhD students for five years. The Marchant Lab welcomes international graduate students; however, please get in touch well before the December deadline as your applications must also go through the International Students Office.

dblainemarchant@umsl.edu

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UMontreal ComputationalInsectDiversity

MSc scholarship offer: weevil temporal diversity in Panama

Project description >From 1999 to 2017, at the Smithsonian Tropical Research Institute's Barro Colorado Island Biodiversity Research Center in Panama, adjacent to a tropical forest plot established in 1982 for the study of forest evolution, ten Malaise traps systematically captured around 15,000 weevil specimens (family Curculionidae) representing 1,350 species. Specimens were identified by a weevil specialist. This computational project will analyze temporal changes in weevil diversity in relation to environmental (mainly climatic) and vegetation changes. The sheer volume of data from the three datasets (insects, plants, meteorology) makes this a project of the highest scientific calibre. The person recruited will be supervised by entomologist Colin Favret and numerical ecologist Pierre Legendre, with the participation of tropical beetle specialist Hector Barrios Velazco.

Eligibility requirements Interest in computational analysis of biodiversity data and experience in entomology University degree (B.Sc. or equivalent) Good oral and written communication skills We encourage women, LGBTQ+, aboriginal, individuals of all backgrounds, or with a disability, to apply.

Benefits $15,000/year scholarship for 2 years Additional financial support available (teaching assistantships, scholarships) Flexible working conditions (flexible hours, remote work) Wonderful work environment: entomology lab on the grounds of the Montreal Botanical Garden; supportive team of friendly colleagues

Dates Evaluation of applications will begin in November 2023, but applications will be considered until the right candidate is recruited. The study program will last two years, starting in the 2024 winter or summer term.

How to apply Please send (1) a cover letter, (2) your CV, (3) your transcript (photocopy acceptable), and (4) the names and contact details of two references, to: Colin Favret, colin.favret@umontreal.ca.

Colin Favret <Colin.Favret@umontreal.ca>

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UNebraska Lincoln EvolutionarySystemsGenomics

Are you excited to find out how changes to the genome shape behavioral differences between species? Have you ever wondered how new sex chromosomes work together to remodel variation in tissues? The Moore Lab (mooregenomicslab.com) at the University of Nebraska Lincoln is recruiting creative and motivated students to join for a PhD position in evolutionary systems genomics to work on these questions, and more! We use beautiful and charismatic Malawi African cichlid fishes to study the mechanisms underlying complex adaptive traits. All projects will focus on generating and integrating different types of genomic data (epigenetics, gene expression, and/or whole genome sequencing), but may also include tissue collection, histology, and/or state-of-the-art, creative behavioral phenotyping.

Students of all backgrounds are encouraged to apply, and we are committed to fostering a lab environment where all trainees feel welcome and supported. This position may be funded through RA or TA, and includes stipend support and a tuition waiver.

Required qualifications: - Interest in evolution, genomics/bioinformatics, behavior and/or sex chromosomes. You do not need experience in all of these fields but should have a clear motivation for wanting to work towards a PhD on this topic. - A willingness to contribute to a supportive and engaging intellectual environment that includes undergraduate researchers. - UNL graduate program requirements: Minimum standards are a B.A. or B.S. degree (or equivalent) from an accredited institution with a cumulative 3.0 GPA or equivalent. If you are international and English is your second language the program requires a TOEFL score of 565 for paper-based test, 225 for computer-based test,

or 85 for the internet-based test.

Preferred qualifications: - Wet lab skills (nucleic acid extractions, genomic library preparations) - and/or familiarity with bash scripting/R or other programming languages (python, perl, etc) - and/or fish handling and husbandry experience - and/or undergraduate or postbaccalaureate research experience

Please email Emily Moore (emily.christine.moore@gmail.com) a CV and statement of interest prior to applying to the graduate program in Ecology, Evolution, and Behavior in the School of Biological Sciences at UNL (https://biosci.unl.edu/-graduate). Applications are due December 1, 2023.

Emily Moore <emily.christine.moore@gmail.com>

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UNevada Reno EvolGenomicsBioinformatics

GRADUATE STUDENT POSITIONS IN EVOLUTIONARY GENOMICS AND BIOINFORMATICS AT THE UNIVERSITY OF NEVADA, RENO

The Alvarez-Ponce lab at the University of Nevada, Reno, is accepting applications from potential M.S and Ph.D. students.

Research in our lab focuses on the evolution of genes and genomes, and how this evolution is shaped by natural selection. Specific topics include rates of protein evolution, the evolution of molecular networks, the evolution of methylomes, and gene duplication. More information about the lab can be found at www.genomeevol.wordpress.com . The ideal candidates would have: - A strong commitment to conducting high-quality research. - A strong interest in Genomics and Molecular Evolution. - Experience with bioinformatics analyses, including programming in any scripting language (e.g., PERL or Python), or a strong willingness to learn. - Good communication and interpersonal skills. - The requirements to be accepted in one of UNR's graduate programs (Ecology, Evolution and Conservation Biology, Cellular and Molecular Biology, or Biology programs).

Official applications are due to the Graduate School in mid-December (EECB and CMB PhD programs) or at the beginning of February (MS in Biology program). Informal enquiries can be sent to Dr. David Alvarez-Ponce (dap@unr.edu), including: - A short application letter, addressing the applicant's motivation for the position, and how her/his experience and skills align with the requirements listed above. Please include your GPA and TOEFL/IELTS scores. - A CV. - Contact information for potential referees.

The University of Nevada, Reno offers an interactive and productive research environment, including outstanding core facilities in genomics and bioinformatics. The Biology Department has a growing evolutionary genomics research community. Reno is located in the Sierra Nevada mountains near Lake Tahoe and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Please circulate this post among suitable candidates.

David Alvarez-Ponce, PhD (he/him/él) Associate Professor Department of Biology University of Nevada, Reno Max Fleischmann Building, office 147A Tel.: (775) 682-5735 www.genomeevol.wordpress.com David Alvarez-Ponce <david.alvarez.ponce@gmail.com>

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UNottingham SmallPopulationGenomics

Why do populations fail to adapt to environmental change? There are myriad examples of amazing evolutionary adaptations, from the beaks of finches to antimicrobial resistance, that have been shaped by selection arising from natural processes or the effects of humans on the environment. These have been studied in detail, and can make evolutionary adaptation seem inevitable. But natural selection is not all powerful: sometimes adaptation fails. In the face of rapid environmental change it is important that we understand why adaptation may fail, yet failures are much less well studied than successes. In this project the successful student will compare patterns of adaptation in large and small, and core and marginal populations of three-spined stickleback, a small, northern hemisphere fish with outstanding genomic resources. The student will also quantify patterns of selection in the wild and attempt to discern whether genetic rescue can alleviate the failure to adapt. The project will combine substantial existing genomic and phenotypic data from multiple populations, with

fieldwork in Scotland and Portugal, and experimental crosses between populations to decipher the conditions that lead to failure to adapt. The results of the project will be highly relevant to 'blue-skies' understanding in evolutionary biology, as well as to conservation biology and the management of small populations.

The project will be based in the MacColl lab at the University of Nottingham, http://-ecology.nottingham.ac.uk/AndrewMacColl/index.php, a friendly, dynamic and well-funded group, embedded in a wider cohesive group of ecologists and evolutionary biologists http://ecology.nottingham.ac.uk/index.html. The successful student will collaborate with Dr Alex Papadopulos at Bangor University and Dr Carlos Alexandre at the University of Evora.

Please contact Andrew MacColl in the first instance, but applications MUST be made through the Envision website https://www.envision-dtp.org/ Professor of Evolutionary Ecology School of Life Sciences University of Nottingham University Park Nottingham NG7 2RD, U.K. Tel: +44 115 951 3410 http:/-/ecology.nottingham.ac.uk/AndrewMacColl/index.php Andrew Maccoll <Andrew.Maccoll@nottingham.ac.uk>

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UOtago NZ GrasshopperSpeciation

A fully funded PhD position is available to study the evolution of gene expression and speciation in grasshoppers. The PhD position is based at Otago University in the lab of Dr Ludovic Dutoit, in collaboration with Mary Morgan-Richards and Niclas Backström at Uppsala University.

Full description of the position is available at https://-tinyurl.com/5n8f4xre < https://t.co/vb4EZqA9Up > Understanding the way organisms adapt to change is a fundamental goal of biology. Genetic changes happen at two levels: in the underlying DNA code of proteins or the DNA code that regulates how much of a given protein is produced. Our knowledge of the regulation process is limited.

The successful applicant will use the hybrids of two species of NZ short-horned grasshopper (*Phaulacridium sp*.) and long-read genomic sequencing to disentangle the relative role of the two different types of regulatory elements (cis- and trans-elements).

About the position

The PhD student at Otago University will combine mating experiments, lab work and bioinformatic analyses to further our understanding of gene-expression evolution. Towards the end of the PhD, the student will travel to be physically located at Uppsala University for a few months under the supervision of Professor Niclas Backström. There, they will develop their network and skills in a cutting-edge research environment. Specifically, they will:

- Perform fieldwork to collect grasshoppers. - Rear hybrid grasshoppers at the University of Otago. - Perform lab work to extract RNA for sequencing with cutting-edge long-range Nanopore technologies. - Undertake bioinformatic analyses of the data generated in the experiment.

The successful candidate must have an interest in evolution and genetics. The candidate will ideally have a background in genetics or biological sciences.

The following skills would be advantageous:

- Strong organisational skills to lead the experiments - Knowledge of Bioinformatics and R - Experience with lab work - An ability to work both independently and within a team

Candidates should have a BSc(Hons), master's degree or equivalent.

Equal opportunities

We are committed to an inclusive and supportive research environment for people of all genders, ethnicities and abilities.

The scholarship

The scholarship is funded by a Marsden Fast-Start grant, providing generous funding towards research costs and scholarship support ($35,000 pa) for three years.

The PhD student will be supervised by Dr Ludovic Dutoit (Otago University), Professor Mary Morgan-Richards (Massey University), and Professor Niclas Backström (Uppsala University, Sweden).

How to apply

To apply, email a cover letter (outlining your interests and background), your CV, and the names of at least three referees to ludovic.dutoit@otago.ac.nz .

Enquiries and questions before applying are welcome.

Applications will close on December 15 2023.

dutoit.ludovic@gmail.com

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UPlymouth Crypticspeciation

Investigating cryptic speciation in the beadlet sea anemone Actinia equina

ARIES fully funded 3.5 year PhD studentship based at the University of Plymouth UK.

Closing date: 10th January 2024 Studentship start date: 1st October 2024.

Project description: Organisms inhabiting the intertidal zone experience stressors from both the aquatic and aerial environments they straddle, providing an "early warning system" for the impacts of climate change. However, our ability to monitor changes in these communities is hampered by our lack of knowledge surrounding the genetic diversity of their inhabitants, in particular due to the presence of cryptic species which are morphologically identical. The beadlet anemone Actinia equina is one of the most common animals found along the UK's rocky shores, but despite becoming a model system for research across a range of fields, knowledge about its basic biology is severely lacking. Once assumed to be a single species, A. equina is now thought to represent a cryptic species complex, but to date only one "cryptic" species has been identified in UK populations. Furthermore, there is debate as to whether "cryptic" species within this complex can actually be identified by body colour due to the diverse phenotype of A. equina. This project aims to increase our understanding of intertidal biodiversity by systematically examining the genetic structure of A. equina populations along the South West coast and exploring their responses to environmental stresses relevant to climate change.

The project will involve; (1) systematic surveys of A. equina populations; (2) the use of survey software to compile spatial distribution maps; (3) verification of the existence of cryptic species using molecular and bioinformatics analyses; (4) lab experiments to characterise differences between morphs in behavioural and physiological responses to environmental stressors. The student will gain training in a range of different laboratory techniques (including molecular, physiological and behavioural analyses), alongside species distribution mapping using GIS. They will develop communication and networking skills, with the opportunity to attend research group meetings across the wider school, present data at international conferences, and engage in outreach activities.

Candidate requirements: We are looking for an enthusiastic candidate with a degree in a relevant biological subject, an interest in the field and relevant experience in molecular ecology. A positive attitude towards problem solving, independence and initiative are essential, experience with GIS, R and bioinformatics is desirable. Applicants should have a first or upper second class honours degree or a relevant Masters qualification. We are looking for an enthusiastic candidate with a degree in a relevant biological subject, an interest in the field and relevant experience in molecular ecology. A positive attitude towards problem solving, independence and initiative are essential, experience with GIS, R and bioinformatics is desirable.

If your first language is not English, you will need to meet the minimum English requirements for the programme, IELTS Academic score of 6.5 (with no less than 5.5 in each component test area) or equivalent. Successful candidates who meet UKRI's eligibility criteria will be awarded a NERC studentship, which covers fees,â€stipend (Â£18,622 p.a. for 2023/24) and research funding.â€International applicants are eligible for fully-funded ARIES studentships including fees. Please note however that ARIES funding does not cover additional costs associated with relocation to, and living in, the UK. NB: The studentship is supported for 3.5 years of the four-year registration period. The subsequent 6 months of registration is a self-funded â-up' period. Excellent applicants from quantitative disciplines with limited experience in environmental sciences may be considered for an additional 3-month stipend to take advanced-level courses. ARIES is committed to equality, diversity, widening participation and inclusion in all areas of its operation. We encourage applications from all sections of the community regardless of gender, ethnicity, disability, age, sexual orientation and transgender status. Academic qualifications are considered alongside significant relevant non-academic experience.

If you wish to discuss this project further informally, please contact Dr Sarah Lane, sarah.lane@plymouth.ac.uk .

For more information and how to apply please visit: https://www.findaphd.com/phds/project/-investigating-cryptic-speciation-in-the-beadlet-sea-anemone-actinia-equina/?p163316 Dr Sarah Lane Lecturer in Behaviour and Evolution

School of Biological and Marine Sciences | University of Plymouth |

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

UPorto Portugal AdaptationGenomics

Call for Doctoral (PhD) Fellowship in adaptations genomics of freshwater mussels.

The Interdisciplinary Centre of Marine and Environmental Research (CIIMAR) is advertising a Call for a Doctoral Fellowship entitled "A genomic approach to assess freshwater mussels' adaptations to a changing world" within the "la Caixa Foundation" Doctoral INPhINIT Fellowships Incoming Programme

We seek motivated and enthusiastic PhD student candidates to study the genomic adaptations of freshwater mussels.

Annual gross salary between 25,800-35,800 euro . Additionally, the grant covers euro 3,500 per year for research costs and tuition fees.

Job position description

We seek motivated, enthusiastic, and hardworking PhD student candidates attracted to addressing scientific problems with rigour and creativity. The candidate should have a complete graduate degree in natural sciences, biology, genetics or a closely related field, and a strong interest in bioinformatics. The work will focus intensively on bioinformatics, thus learning shell script will be mandatory. Prior knowledge of other programming languages (e.g. R, Python, Perl, Â) is a plus. The candidate will be conducting whole genome assemblies, differential gene expression analysis and population genomics to identify the genomic features underlying freshwater mussel 1) Adaptation to Climate Crisis (e.g. increasing temperature and dissolved O2) and 2) Adaptation to obligatory host (e.g. genes, SNPs, and metabolic pathways). The project will mainly use existing samples, but there will be opportunities for fieldwork to support project objectives or/if the candidate is willing to participate in them. Also, the candidate is expected to be involved in some molecular laboratory work (DNA/RNA extractions for NGS sequencing). This proposal is within the funded project: Freshwater Bivalves at the edge: Adaptation genomics under climate-change scenarios (PTDC/CTA-AMB/3065/2020). The PhD candidate will not only join a multidisciplinary team of motivated researchers in the wide field of Aquatic Ecology and Evolution at CIMAR but will also benefit and be integrated into the extended network of collaborations from other national and international institutions. From this proposal we expect to obtain novel insights into the processes by which freshwater species with broad geographical ranges can/might adapt to local environmental conditions and gain a clearer understanding of the evolutionary history of these imperilled organisms with eventual pay-offs in future management actions devoted to the conservation of these extraordinary organisms.

The research will be based in the Aquatic Ecology and Evolution (AEE) Lab at CIIMAR, led by Dr Elsa Froufe (http://www2.ciimar.up.pt/research.php?team=8).

More details on the workplan can be found at the "La Caixa Inphinit Programme" website at - https://finder-fellowships.lacaixafoundation.org/-finder?position=7801 Interested parties can submit their application at - https://candidate-fellowships.lacaixafoundation.org/login All the information is available at https://lacaixafoundation.org/-en/doctoral-inphinit-fellowships-incoming-call For more information, please contact Dr. Elsa Froufe (efroufe@ciimar.up.pt) and André Santos (asantos@ciimar.up.pt)

The call for applications is open until 24 January 2024 at 1 pm (Portuguese time).

André Santos <andrepousa64@gmail.com>

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UPorto Portugal EvolutionaryBiology

Pre Call / Expression of Interest - PhD Fellowship in Gulf of Guinea Research Program - in Portugal

We are seeking prospective PhD students interested in applying for a PhD Fellowship at the University of Porto as part of the Gulf of Guinea Research Program (GGRP).Students in this program would enroll as PhD students with CIBIO/Biopolis as the host institution, undergo all their research and coursework in English, and perform field research in the Gulf of Guinea, Africa.This FCT fellowship program in Portugal is a hidden gem: it is an excellent academic program, but ac-

ceptance into the program is relatively non-competitive: e.g., in 2022, 79% of eligible students received the fellowship, which includes a tuition waver and monthly stipend (more below). Here we are recruiting prospective students to apply for the FCT PhD Fellowship through CIBIO/Biopolis and the GGRP.This fall, we will select from among the most promising respondents to this pre-call and will then support those chosen candidates through the application process.

The GGRP: The GGRP is a brand-new research program that is a collaboration between CIBIO/Biopolis and Supernova Technologies with the goal of advancing research and conservation in the Gulf of Guinea. More information can be foundherein the full proposal, which is effectively a non-comprehensive catalogue of possible PhD research topics. In particular, the GGRP has research hubs in Principe Island, Sao Tome, Gabon, Equatorial Guinea (both mainland and Bioko), Cameroon, and in Cabinda, Angola. Students in the program have broad flexibility in selecting a research topic, so long as the research is centered in the Gulf of Guinea.

Required: A strong passion for tropical ecology, conservation and/or evolution in the Gulf of Guinea. Bachelor's and master's degree in biology, ecology or a related field. At least one publication. Considerable research experience. Field experience. Adaptability. Resourcefulness. Very good marks/grades. Prospective fellows, when they apply for the fellowship, are ranked by an FCT panel, where grades, experience, and publications weigh heavily on their score.

Preferred: At least one first-authored publication. At least three total publications. At least a working knowledge of Portuguese, Spanish or French would be most helpful in the field, but is not required. Excellent quantitative skills - particularly modelling in R. Lab skills. Experience performing fieldwork in Africa or other tropical places.

Details of the Fellowship and application: In addition to a tuition waiver, fellows would earn about 1200 euros per month while in Portugal or about 2000 euros a month while outside of Portugal if they receive a "mixed grant". Applications for the FCT fellowship program are due at the end of March, 2024.Critically, applicants receiving their MS and/or BS degrees outside of Portugal must authenticate their diplomas and have their degrees recognized by Portugal (and grades transferred).For degrees from the Global North (especially Europe), this process is typically quick: weeks at most. For degrees from the Global South, the process is challenging and can (rather unfairly) take four months or more because the countries/universities don't typically have degree recognition agreements in place with Portugal.More details on the process are explainedhere.

To apply: send an email toLuke.L.Powell@cibio.up.ptwith "GGRP pre-call" in the subject line.Please include 1) your CV, with pubs (including thosein prep and in review; with target journal), 2)a 250 word max letter describing your interest in the program, including a brief discussion of yourself and a potential dissertation topic (see GGRP Proposal for ideas; other topics welcome) and, if applicable, which researcher at CIBIO/Biopolis you would like to advise you during your PhD; finally, include 3) a list of 3 references that can speak to your abilities as a researcher/graduate student. These three items should be separate attachments, (not in the body of the email) and named in this way: Surname_Firstname_CV.pdf.Please send your materials by November 27th, 2023.Students with degrees from the Global South are encouraged to send their letters ASAP as degree transferring takes months. We particularly encourage African students to apply; note that African students from PALOP countries have a special path to acceptance in the program.

Luke Powell <luke.l.powell@gmail.com>

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USouthampton BacteriaInvasion

PhD position is available in the group of Nela Nikolic at the University of Southampton, UK, starting October 2024. Invading a New Host: Importance of the bacterial accessory genetic material in host colonization https://southcoastbiosciencesdtp.ac.uk/project/-invading-a-new-host-importance-of-the-bacterial-accessory-genetic-material-in-host-colonization/ You will have the opportunity to investigate what makes bacteria successful in colonizing new hosts, by employing a range of microbiology, molecular biology, host-pathogen biology and single-cell techniques (Nikolic and Wilks groups), alongside engineering (Zhang group), evolutionary genomics and bioinformatics (Tsaousis group).

Details here: https://www.findaphd.com/-phds/program/4-year-fully-funded-phds-in-biological-sciences-from-the-south-coast-biosciences-doctoral-training-partnership-socobio-dtp-for-october-2024/?i349p4764 Apply here: https://-

southcoastbiosciencesdtp.ac.uk/apply/ Contact n.nikolic@exeter.ac.uk for more info

Applications Deadline: Monday 8th January 2024

"Nikolic, Nela" <N.Nikolic@exeter.ac.uk>

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UWaikato NewZealand PopGenomics

Species are on the move globally, but how do they survive in new environments when they get there? What are the key predictors of invasion success? These are hard questions, hampered by a lack of appropriate model systems and an inability to know when and why introductions fail or succeed. This broader project explores the hypothesis that more invasive species and populations have, or rapidly evolve, a greater extent of genomic and phenotypic innovations that enable their success in new environments. To test this, we will unite experimental evolution with ecological, genomic, and modelling approaches in a system of endemic and differentially invasive blowflies to determine what it takes to be a successful invader.

We are seeking a 2024 PhD applicant to explore a variety of questions available in the system, with one major focus to be establishing an experimental evolution case study to elucidate the effects of genetic diversity and foundation size on invasion success. The successful student will therefore have excellent management and record-keeping skills, and high attention to detail. Knowledge or interest in developing skills in the analysis of genomic data (especially population genomics), and in phenotyping and analysis of life history traits (particularly in insects), are highly desired. Interest in getting out into the field, and an ability to work well with others as well as alongside a fantastic team towards common objectives, will further help to make you a great fit for this project!

The successful applicant will be based at the University of Waikato under the Chief Supervision of Dr. Ang McGaughran and will be co-supervised by Prof. Murray Cox (Genomicus Consulting), Prof. Ruth Haufbauer (Colorado State University, USA), and Dr. Nathan Butterworth (Monash University, Australia). There will be opportunities to spend time in the different labs and to participate in fieldwork (e.g., in locations such as New Zealand, Australia, USA). This is a fully funded PhD position ($35,000 p/a stipend plus fees).

Hamilton is an inland city in the North Island of New Zealand. It is bisected by the Waikato River and is the country's fourth-most populous city. Within close proximity are some of the best surf and swimming beaches in the country, as well as beautiful cultural areas and walking tracks. The University of Waikato is a leading New Zealand university, with the Hamilton campus offering modern facilities, vibrant student life, and easy access to nature and recreation. Our landmark new building ?¿' *the Pâ* < https://www.waikato.ac.nz/-news-opinion/media/2023/university-of-waikato-opens-the-pa-mau-maku-ma-tatou-katoa > ??" is a special feature of campus life that reinforces our distinctiveness and the interconnectedness of the campus community. For more information about Te Aka Mâtuatua School of Science, please visit *our website* < http://www.sci.waikato.ac.nz/. >.

To apply for this opportunity to do exciting, cutting-edge research with real-world applications, please send an interest statement and CV to: *amcgaugh@waikato.ac.nz* <amcgaugh@waikato.ac.nz>. Enquiries at the same email address are welcome.

Dr. Angela (Ang) McGaughran FHEA *Senior Lecturer* Te Aka Mâtuatua - School of Science University of Waikato Private Bag 3105 Hamilton 3240 New Zealand

www.ang-mcgaughran.com *Google Scholar*

ang.mcgaughran@gmail.com

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UWyoming SpatialEcoEvoDynamics

The Weiss-Lehman lab at the University of Wyoming is recruiting a PhD student to join our group in fall 2024. The PhD student will work with laboratory microcosms, computational models, and genomic data to test ecological and evolutionary mechanisms behind the formation of stable range limits as part of a recently funded NSF grant. The student will also be encouraged to develop independent projects based on their own interests as part of their dissertation. Research in our lab largely focuses on spatial eco-evolutionary dynamics, using models and careful experiments to understand how rapid evolutionary changes can impact species' ranges. This includes factors affecting range limits, but also understanding

the dynamics of species spreading via invasions or range shifts in response to climate change.

The Weiss-Lehman lab is a highly collaborative group and members are encouraged to work together on group projects while also developing independent projects based on their own interests. Our lab is committed to creating a diverse and inclusive group of researchers in which all lab members feel valued and supported. For more details on the lab and our research, see our website: https://weisslehmanlab.weebly.com/ The position will be fully funded for 5 years through a combination of research and teaching assistantships and includes tuition, a stipend, and health insurance. Applicants need a bachelor's degree in biology, ecology, evolution, or a related field by the fall of 2024. Additional preferred qualifications include quantitative and/or bioinformatic skills, familiarity with a scientific computing language (R, Matlab, Python, etc.), and previous research experience.

To apply, please email Topher Weiss-Lehman (cwiessle@uwyo.edu) with your CV, transcripts (unofficial are fine), a statement of interest, and contact information for 2-3 professional references.

Assistant Professor Department of Botany University of Wyoming Pronouns: he/him/his

Christopher Weiss-Lehman <cweissle@uwyo.edu>

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WayneStateU EcolEvolutionaryBiology

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Division of Ecology and Evolution (EEB) in the Department of Biological Sciences at Wayne State University invites graduate program applications for students interested in the areas of: Aquatic Ecology Community Ecology Developmental Evolution Forest Ecology Genome Evolution Molecular Evolution Population Genetics

Other research areas of the department include neurobiology, molecular biology, cell biology, virology, and bioinformatics. Accepted PhD students enjoy guaranteed financial support for five years through Teaching Assistantships, Research Assistantship appointments, and fellowships, plus full medical/dental/vision health coverage. Two outstanding MS program students per year are also guaranteed financial support. Located in the vibrant Midtown area of Detroit, Wayne State University represents one of the 50 largest public universities of the US and hosts Michigan's most diverse, multicultural student body.

Applications for the PhD program are accepted until December 1, 2023. The deadline for the MS program is Feb 15, 2024.

Application fees have been waived for this year and GRE test is not required.

Applicants are expected to contact faculty and identify potential advisors while preparing their application.

For questions and assistance with the application process, direct e-mail inquiries to:

Graduate Program Coordinator, Ms. Rosie Priest (rpriest@wayne.edu)

Graduate Committee Chair, Dr. Weilong Hao haow@wayne.edu

More information about the application process can be found here: http://go.wayne.edu/biograd Weilong Hao, Ph.D Associate Professor Department of Biological Sciences Wayne State University 5047 Gullen Mall, #5107.1 Detroit, MI 48202

Phone (313) 577-6450 Fax (313) 577-6891 Email: haow@wayne.edu Website: haolab.wayne.edu

Weilong Hao <ex8688@wayne.edu>

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WesternWashingtonU EvolutionaryBiology

Masters of Science in Biology

Western Washington University

The Biology Department at Western Washington University has openings for graduate students starting Fall 2024. Faculty members in the department offer a wide range of expertise, from molecular biology to ecology. Graduate students are eligible for teaching assistantships, which fund the majority of tuition and, in 2023-2024, provided a stipend of $15,300 per 9-month academic year ($5100 per quarter). WWU is located

in Bellingham, WA, a coastal city north of Seattle at the base of Mt. Baker in the northwestern part of the state. We strongly advise interested students to contact potential advisors in their area of specialty to get more details about individual labs.

APPLICATION DUE DATE: Feb. 1, 2024

You can find more information with the following resources: - The Biology Dept: https://biology.wwu.edu/biology-graduate-program - The WWU Graduate School: http://www.wwu.edu/gradschool/App_Reqs_Deadlines.shtml; - Dr. Shawn Arellano, Biology Graduate Program Advisor: BiologyGradProgram@wwu.edu; - By contacting the individual faculty, below.

Potential advisors

Alejandro Acevedo-Guti?rrez: My research lab is geared towards understanding the role of marine mammals in their environment and their interactions with humans. The majority of this research has been conducted on pinnipeds in the Salish Sea in collaboration with Dr. Schwarz, also in the Biology Department. Currently, we are looking for two graduate students to start academic year 2024-2025. You can find more information about what we are looking for on my website: https://www.wwu.edu/faculty/aceveda/Research%20HTML%20files/GradStudiesInfo.html Shawn Arellano: Marine invertebrate larval ecology and deep-sea ecology. The Arellano lab does not expect to accept new graduate students in Fall 2024. https://wp.wwu.edu/arellanolab/ Jim Cooper: The Cooper lab is currently looking for students interested in working within two broad areas: 1) the development of marine fishes endemic to the Pacific Northwest; and 2) using a model fish species (zebrafish) for experimental studies of skull morphogenesis. We are currently focused on developing methods for working with marine fish species to answer questions relevant to local ecology and ecosystem management. Our zebrafish research is primarily directed at understanding the controls of skull formation within an evolutionary context (Evo-Devo focus). We are particularly interested in recruiting students who have experience working with marine fish development, but because our lab is highly integrative, we can accommodate new colleagues with a diverse range of interests. https://biology.wwu.edu/people/cooperw5 Deb Donovan: Research in the Donovan lab is focused on restoration aquaculture of our native pinto abalone, Haliotis kamtschatkana. Pinto abalone populations have declined precipitously in the last few decades and we collaborate with the Puget Sound Restoration Fund and with government agencies to restore populations in the Salish Sea. Student projects could focus on any aspect restoration, including optimizing rearing of juveniles at the hatchery, outplanting larval or juvenile abalone, or monitoring abalone at outplant sites. Students work closely with hatchery personnel to identify projects that align with student interest and that contribute meaningfully to abalone restoration. https://biology.wwu.edu/people/donovad Lina Dalberg: The Dahlberg Lab uses the model organism C. elegans to probe the neurobiological, cellular, and behavioral role for proteins involved in a ubiquitin-dependent processes called Endoplasmic Reticulum Associated Degradation (ERAD). Student projects will use a variety of techniques, including fluorescence microscopy, behavioral assays, and biochemical characterization to investigate how ERAD targets neural receptors for degradation. A second, NSF-funded project focuses on teaching and learning in undergraduate science laboratory courses; students interested in this project should have experience (via coursework or research) in education and pedagogy research. https://biology.wwu.edu/people/dahlbec Nick Galati: Cell biology and organelle dynamics. Cilia are evolutionarily ancient, hair-like projections that generate hydrodynamic force and process extracellular information. The goal of our lab is to understand how cells build cilia, with a specific focus on how individual proteins traffic to and from a structure at the base of cilia, called the basal

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Jobs

AMNH NewYork AssistCurator AncientBiomolecules

Classification Title Position Summary The American Museum of Natural History (AMNH) seeks an Assistant Curator in the area of Ancient Biomolecules. The successful candidate will be appointed in a tenure-track position as an Assistant Curator in one of four science Divisions (Anthropology, Invertebrate Zoology, Paleontology, or Vertebrate Zoology) and as an Assistant Professor in the Richard Gilder Graduate School at the AMNH.

We seek a candidate with demonstrated high-impact research that involves generating molecular data from ancient or historical archival materials and collections. Candidates should exhibit a high level of scientific productivity and grantsmanship, and clear potential for future success in these areas. Research focus could be in any area related to ancient DNA, historical DNA, museomics, paleoproteomics, paleogenomics, and/or molecular signatures in ancient tissues. The research should integrate with the Museum's focus on comparative biology and/or anthropology. Those whose research also helps grow natural history collections through fieldwork are encouraged to apply. The ideal candidate would have an interest in teaching and advising comparative biology graduate students and postdocs in the Museum's *Richard Gilder Graduate School* < https://www.amnh.org/research/richard-gilder-graduate-school >.

The Curator's research and activities are expected to complement and strategically expand the use of the *Museum's collections* < https://www.amnh.org/research/scientific-collections#:~:text=The%20American%20Museum%20of%20Natural,remarkable%20achieve > in novel ways. Resources available at the AMNH include: world-class collections; our *Institute for Comparative Genomics* < https://www.amnh.org/research/sicg > with laboratories equipped for molecular and microbial research; *ancient biomolecules lab* < https://www.amnh.org/research/sicg/ancient-biomolecular-lab >; a renowned *natural history library* < https://www.amnh.org/research/research-library >; the *Center for Biodiversity and Conservation* < https://www.amnh.org/research/center-for-biodiversity-conservation >; the *Southwestern Research Station* < https://www.amnh.org/research/southwestern-research-station >; computational systems; and a wide range of optical, electron beam, and x-ray analytical tools, including CT scanning. The AMNH maintains active internal grant programs to support field research. The successful applicant will have the opportunity to build on existing relationships with nearby collaborating institutions including Columbia University, City University of New York, and others. The AMNH has a vibrant scientific community and outstanding opportunities for public-facing engagement

with a large and diverse public. We are committed to advancing and sustaining a diverse, equitable, and inclusive workplace and visitor experience through *defined institutional strategies and goals* < https://www.amnh.org/about/diversity-equity-inclusion >.

The expected salary range for the Assistant Curator/Professor in Ancient Biomolecules is $123,000 - 140,000/annual.

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 $123,000/annual Expected salary maximum $140,000/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

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AMNH NewYork AssistCuratorMammalogy

Position Title Assistant Curator/Professor, Mammalogy Department Mammalogy - 016 The Division of Vertebrate Zoology at the American Museum of Natural History (AMNH) seeks an Assistant Curator in the Department of Mammalogy to start on or after July 2024.

The successful candidate will be a creative scientist with an innovative program in mammalian evolutionary genomics, with the potential to develop inter-institutional collaborations. The applicant should demonstrate expertise in using comparative genomics and collections in an integrative and computationally-intense framework. We are also interested in applicant's who work in the areas of climate change, biodiversity crisis, resilience, disease transmission, and human health.

The AMNH is a recognized leader in scientific research, graduate education, and public education about science and the natural world. The responsibilities of the position are to perform original scientific research on mammals, oversee curation and management of the mammal collection in the Division of Vertebrate Zoology, and enhance the Museum's collections through field expeditions and collecting. In addition, the successful candidate will serve as an Assistant Professor in the Richard Gilder Graduate School and have an interest in teaching and advising comparative biology PhD students and postdocs. The successful candidate will also have opportunities to contribute to exhibition development, collaborate with the Museum's education department, and participate in public programs.

Resources available at the AMNH include world-class zoological collections, including cryogenic collection < https://www.amnh.org/research/institute-comparative-genomics/amcc >; genomics labs < https://www.amnh.org/research/institute-comparative-genomics/molecular-labs > and ancient biomolecules lab < https://www.amnh.org/research/sicg/ancient-biomolecular-lab >; computational systems; and a wide range of optical, electron beam, and X-ray analytical tools (including CT scanning). The AMNH maintains active internal grant programs to support field research across many disciplines. The successful applicant will have the opportunity to build on existing relationships with nearby collaborating institutions including Columbia University and the City University of New York.

The expected salary range for the Assistant Curator, Mammalogy is $123,000 - 140,000.

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 biology or related field at the time of application submission.

Expected salary minimum Full-Time Expected salary

maximum 70 EEO Statement Non-Union Quick Link Exempt $123,000/annual $140,000/annual

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.

https://careers.amnh.org/postings/3918 Open Date 11/12/2023 Close Date Open Until Filled Yes Application materials should include:

* Cover letter (max. 1 page) * Curriculum Vitae * Research statement, including goals, achievements, and future plans (max. 3 pages) * Curatorial statement, addressing your vision for the role of collections and collecting in supporting scientific research (max. 2 pages) * Service and broader impact statement, addressing your experience and interests in teaching and public outreach, and vision and

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AMNH NewYork CuratorConservationScience

Curator, Professor, and Chief Conservation Scientist

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 general public, the media, and other partners.

The expected salary range for the Curator, Professor, and Chief Conservation Scientist is $140,000 ï¿½ “ 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. For full details about this position please see:

https://careers.amnh.org/postings/3900 Inquiries about the position should be directed to Jin Meng (jmeng@amnh.org). Consideration of applications will begin December 4, 2023, but applications will continue to be accepted after this date. All materials should be submitted to https://careers.amnh.org Christopher Raxworthy <rax@amnh.org>

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ArizonaStateU AntBiodiversity

Arizona State University: Assistant Research Professor - Ant Biodiversity

The Arizona State University (ASU) School of Life Sciences (SOLS) is seeking a Biodiversity Assistant Research Professor with specialization in ant systematics, evolution and ecology (Insecta: Hymenoptera: Formicidae). This is a new, primarily research-focused position set up through a combination of a fund (endowment) donated to the ASU Foundation by ant researcher Dr. Robert A. Johnson, with additional support from The College of Liberal Arts and Sciences and the Biodiversity Knowledge Integration Center (BioKIC). The position is initially set up for 10 years, and includes salary, full university benefits, and an annual research stipend to support the position's research activities. Programmatically, the position is embedded within BioKIC, the ASU Biocollections, and the Social Insect Research Group (SIRG). Jointly, these groups will provide access to diverse, state-of-the-art research collections (e.g., the NEON Biorepository), biodiversity informatics infrastructure, and lab facilities, including morphological and genomic research lab spaces and computing resources. Faculty leaders in BioKIC and SIRG will provide continued, effective academic mentorship and career development support.

For additional information and to submit an application, please refer to: https://apply.interfolio.com/135564 Initial deadline for applications: November 29, 2023. Prior inquiries to Dr. Nico Franz (nico.franz@asu.edu), Director of BioKIC, are strongly encouraged.

Nico M. Franz, Ph.D. (he/him) Virginia M. Ullman Professor of Ecology Director of Biocollections School of Life Sciences, Arizona State University E-mail: nico.franz@asu.edu

Nico Franz <nico.franz@asu.edu>

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ColbyC Maine EvolutionaryGenetics

Assistant Professor of Biology - Evolutionary Genetics (tenure-track) Colby College

Location: Waterville, Maine, United States Deadline: 25 January 2024

The Department of Biology at Colby College is seeking an evolutionary biologist to fill an open, tenure-track position at the level of Assistant Professor, to begin Fall 2024. Candidates should have a Ph.D. in the biological sciences with emphasis in evolutionary biology. We are seeking a candidate with demonstrated expertise in evolutionary genetics or genomics, with a research program that employs population, quantitative genetic, or phylogenetic approaches using non-animal multicellular organisms. We are particularly interested in candidates with knowledge of organismal biology enabling them to teach one or more courses with a significant field component. Some courses may be cross-listed with Environmental Studies or Statistics.

The successful candidate will teach 4.5 courses per year, with laboratories and discussion-based seminar classes constituting a portion of that load. The teaching responsibilities will include BI320 Evolutionary Analysis, additional courses in the candidate's area of expertise, and rotation in our introductory course BI164 Evolution & Diversity. A commitment to undergraduate education is expected, and teaching experience is desirable. We are especially interested in candidates who will contribute to the diversity and excellence of the campus community through their work.

Application Instructions Please submit a cover letter, curriculum vitae, contact information for three referees, graduate transcripts, and a personal statement describing research interests, teaching philosophy and inclusive pedagogy, to Interfolio at http://-apply.interfolio.com/136768 Candidates are invited to include an optional statement in their cover letter describing how the COVID-19 pandemic has affected their career trajectory. Applications received by January 25, 2024, will receive full consideration.

Equal Employment Opportunity Statement Colby College is a private, coeducational liberal arts college that admits students and makes personnel decisions on the

basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. The principle of not discriminating on the basis of race, color, age, sex, sexual orientation, gender identity or expression, religion, caste, national or ethnic origin, marital status, genetic information, political beliefs, veteran or military status, parental status, pregnancy, childbirth or related medical conditions, physical or mental disability unrelated to the job or course of study requirements is consistent with the mission of a liberal arts college and the law.

For more information about the College, please visit our website: www.colby.edu For information about the Biology Department, visit https://www.colby.edu/-academics/departments-and-programs/biology/ -Dave Angelini <dave.angelini@colby.edu>

Dave Angelini <drangeli@colby.edu>

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EastTennesseeStateU ForestEvolution

BIOLOGICAL SCIENCES TENURE TRACK - East Tennessee State University, Department of Biological Sciences invites applications for a 9-month tenure-track Assistant Professor beginning 15th August 2024.

Successful applicants will have a Ph.D. in Life Sciences (e.g. biology, forestry, conservation, or related field) and a record of research excellence as demonstrated by high-quality publications in ecology, forestry, conservation, or related fields. Postdoctoral experience for this position is preferred. The ideal candidate will address fundamental questions in forest ecology (e.g. structure, growth and function of forest ecosystems) using state-of-the-art experimental and analytical approaches. Candidates working on plant systems and with the ability to conduct research in the Southern Appalachian region are especially encouraged to apply. The position is expected to support the Department of Biological Sciences' new undergraduate concentration in natural resources ecology by developing relationships and collaborations with local natural resource agencies. The position will also complement departmental strengths in evolutionary biology, ecology, genetics, and cell and molecular biology.

The successful candidate is expected to build an innovative, nationally recognized, and externally- funded research program, as well as contribute to effectively engaging undergraduate and graduate teaching, and mentoring that, supports diversity and inclusion. Candidates will be expected to teach courses in Plant Evolution and Ecology, Field Methods and Analyses, Introductory Evolution and Ecology of Natural Resources and Appalachian Flora. Development of an introductory or advanced course in the candidate's specialty is also expected. The successful applicant will also assist in the development and implementation of strategies for student success and retention in our biology program, and participate in service activities in the department, university, and community. The position is subject to the availability of funds.

To apply, submit a cover letter, curriculum vitae, including a list of publications, presentations, and grants applied for and received, a 3-5 page summary of research accomplishments and future plans, and teaching philosophy including a personal statement that summarizes commitment to engaging diverse student populations, and names and contact information for three references via ETSU's eJobs online application system: https://-jobs.etsu.edu/postings/27029. The Department of Biological Sciences currently comprises thirteen faculty members engaged in a wide range of teaching and research activities. The Department serves approximately 450 majors and 40 M.S. and Ph.D. students. East Tennessee State University enrolls over 12,000 undergraduate students and offers 40 master's degree programs, 12 doctoral degree programs, and 24 graduate certificates to over 2,300 graduate students. ETSU is located in Johnson City, Tennessee, a city of about 72,624 located in the southern Appalachian Mountains, which is one of the most biodiverse regions in the US. The region has a total population of more than 516,000 and combines a low cost of living with amenities found in larger urban areas.

Equity and Inclusion are at the core of our work at East Tennessee State University. We are intentional about pursuing diversity, developing and building inclusive learning and working environments, and making sure all faculty, staff, and students are respected and welcomed in the Department of Biological Sciences. We believe all roads-Teaching, Research, and Service-lead to equity and inclusion. Our programming, scholarly activities, and academic offerings reflect our shared commitment to understanding and engaging the world around us. We embrace difference and believe it enriches our academic mission. We seek a faculty who shares our vision.

Search Committee Chair: Dr. Thomas C. Jones, ETSU Department of Biological Sciences, Box 70703, Johnson City, TN 37614-0703, email: JONESTC@etsu.edu . For more information, refer to website https://-

www.etsu.edu/cas/biology/. Screening of applications will begin on January 8, 2024, and will continue until the position is filled.

ETSU is an Affirmative Action/Equal Opportunity Employer. We encourage applications from or information about women and minority candidates.

Lev Y Yampolsky

Department of Biological sciences East Tennessee State University Johnson City TN 37614 USA yampolsk@etsu.edu

"Yampolsky, Lev" <YAMPOLSK@mail.etsu.edu>

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JohnInnesCentre UK PartTime ResAssistEntomology

Research Assistant (Entomology)

Salary: 22,000 - 26,750 per annum depending on qualifications and experience.

Contract: Indefinite, part time Location: John Innes Centre, Norwich, UK.

Closing date: 19th November 2023 Reference: 1004562

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

About the John Innes Centre:

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

Our strategic vision, Healthy Plants, Healthy People, Healthy Planet, sets out our ambitious long-term goals for the game changing impact of our science globally.

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

About the Entomology and Insectary Team:

The John Innes Centre's Entomology and Insectary Platform is a unique and specialised service for supporting invertebrate-related studies. It is managed by a skilled team of entomologists with extensive experience in the husbandry of many different species of invertebrates, as well as in the design, undertaking and overseeing of a wide range of experiments. The Entomology and Insectary Platform not only support excellent research within the John Innes Centre, but also engage in national and international collaborations with academic and commercial partners. The role:

This role involves working with the Entomology Team to assist with the day-to-day maintenance of invertebrate colonies for research purposes. This will involve performing the essential duties associated with maintaining an entomology facility to high standards of hygiene and strict operational procedures required for operating under a Defra license, as well as assisting in the horticultural tasks associated with producing invertebrate food plants. Responsibilities will also include maintaining all equipment and materials in good condition, ensuring that consumables are adequately stocked, and keeping accurate records.

In this role, you will have the opportunity to develop the skills necessary to maintain a wide range of invertebrates to the high standards required for research. The post holder will also have the opportunity to learn how to design and execute experimental work (bioassays) and outreach activities.

The ideal candidate: You will have 5 GCSEs at grades A-C, it is desirable that the post holder will have A-levels or equivalent in Biology or a related subject.

You will have a keen interest in entomology and demonstrable knowledge of invertebrate biology and invertebrate rearing techniques. A fundamental understanding of essential horticultural methods required for providing nourishment to the invertebrates will be viewed favourably. You will have experience in keeping colonies of terrestrial invertebrates. While experience working in a research environment is not essential it will be highly appreciated, and previous experience of working in a support role and awareness of plant health and animal trade regulations will also be considered positively.

A high level of attention to detail, strong communication and organisational skills, and a commitment to maintaining the highest standards by developing and following standard operating procedures are essential. A strong interest in pursuing a long-term career as an entomologist supporting research projects will be highly valued.

Additional information:

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

This role does not meet the full salary requirements set by UKVI to allow for visa sponsorship. However, some individuals may still be eligible for visa sponsorship depending on their personal circumstances. If you require visa sponsorship, please click here to find out if you qualify before applying. Please note, the occupation code for this role is 2112 which is on the shortage occupation list.

For further information and details of how to apply, please visit our website http://jobs.jic.ac.uk or contact the Human Resources team on 01603 450814 or nbi.recruitment@nbi.ac.uk quoting reference 1004562 .

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

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MichiganStateU PlantEvolution

Assistant/Associate/Full Professor Tenure System Position Overview Title: Assistant/Associate/Full Professor Tenure System

Salary: Commensurate with Experience

Anticipated Start: 2024-2025 Academic year

Application Window Opened: Nov 15, 2023

Review Begins: 02/01/2024

Position Description The Plant Resilience Institute of Michigan State University invites applications for multiple faculty positions at a tenure-track Assistant, Associate, or Full Professor level from individuals using innovative laboratory, computational, or field experimental approaches to study plant responses to the environment. Candidates for the Assistant Professor positions will be evaluated separately from those for the Associate/Full Professor positions. The successful applicants can work across any scales or systems within the plant sciences, with a research focus on abiotic and biotic constraints relevant to plant resilience against the changing climate. Responsibilities also include undergraduate and/or graduate teaching (to be determined based on departmental need and candidate strengths) and participation in both undergraduate and graduate training.

These positions are part of MSU's Global Impact Initiative (https://research.msu.edu/global-impact) designed to address grand challenges in some of the most promising and exciting fields of research. These positions are also part of a widespread hiring initiative emblematic of MSU's historic and continuing commitment to plant science excellence (https://research.msu.edu/plant-science-excellence). MSU has a world-class plant science community and support infrastructure comprising more than 200 faculty members conducting a wide range of plant research spanning the lab-to-field continuum in both agricultural and natural ecosystems.

The mission of the Plant Resilience Institute is to enhance plant resilience to environmental challenges including extremes in weather and to become a "Center of Excellence" for foundational and translational plant research aimed at stabilizing the productivity and quality of food and energy crops against climate fluctuations and uncertainties. The PRI is an interdisciplinary cross-departmental institute, with PRI members belonging to a range of home departments. The PRI includes scientists from diverse career stages and disciplines (biochemistry, physiology, ecology, evolutionary biology, genetics, genomics, bioinformatics, microbiology, and pathology), with expertise in model, non-model, and crop plants, drought and heat adaptation, plant-microbe and plant-insect interactions, genomics, and bioinformatics.

Candidates who work collaboratively, pioneer new or emerging technologies and approaches, and whose research program can synergize with the PRI and the larger plant community at MSU are especially encouraged to apply. In addition, communication and outreach are essential and practical means of highlighting both the impacts of research, and the essential nature of the questions behind it. Candidates should have experience participating in outreach and communication endeavors, including those related to their role as a researcher, educator, and member of a community of practice.

In addition to membership in PRI, the candidate will be appointed with one or more academic units/programs on campus including the departments of Plant Biology; Plant, Soil & Microbial Sciences; Horticulture; Computational, Mathematics, Science & Engineering; Forestry; Biochemistry & Molecular Biology; Microbiology and

Molecular Genetics; Entomology; the Long-Term Ecological Research Program in Agricultural Ecology, W.K. Kellogg Biological Station; and MSU AgBioResearch. Across their appointment, the successful candidate will be expected to teach undergraduate and/or graduate courses (to be determined based on departmental need and candidate strengths) and to participate in both undergraduate and graduate training.

Michigan State University is committed to the principles of equal opportunity, nondiscrimination and, in the context of employment, affirmative action. University programs, activities, and facilities are available to all without regard to race, color, gender, gender identity, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age or familial status. The university is an affirmative action, equal opportunity employer. In carrying out this commitment, the university is guided by the applicable federal and state laws and regulations and policies adopted by the Board of Trustees.

Useful Links Plant Resilience Institute:

https://plantresilience.msu.edu/ College of Agriculture and Natural Resources:

https://www.canr.msu.edu/ College of Natural Science:

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MichiganStateU TeachingEvolution

Position Title: Instructor/Assistant Professor (Fixed-Term) in Integrative Biology Department: Integrative Biology, Michigan State University Position Type: Full-Time, 9-Month, Fixed-Term Start Date: August 15, 2024

Position Overview: The Department of Integrative Biology at Michigan State University invites applications for a full-time, 9-month, fixed-term instructor position commencing on August 15, 2024. The initial appointment is for one year, with the expectation of extension contingent upon satisfactory performance and continued funding. The selected candidate will play a key role in delivering Integrative Biology 341: Fundamental Genetics, alongside a dedicated team of faculty and graduate teaching assistants. In addition, the candidate will be required to teach at least one other core Integrative Biology course (as detailed below). The selected candidate will also actively participate in collaborative endeavors with faculty members engaged in enhancing undergraduate STEM education at MSU.

Core Courses Overview: Fundamental Genetics: Covers prokaryotic and eukaryotic genetics, genome biology, population and evolutionary genetics, and modern biotechnologies and genomics applications. Evolution: Explores evolutionary processes in animals, plants, and microbes, encompassing population genetics, microevolution, speciation, adaptive radiation, macroevolution, and the origins of Homo sapiens. Ecology: Delves into the interrelationships of organisms with their environment, addressing principles of population, community, and ecosystem ecology, and their relevance to global sustainability.

Qualifications: Required:

Ph.D. (ABD considered*) in biology or a related field. Undergraduate teaching experience. Commitment to fostering student success and inclusivity in a diverse learning environment. Proficiency in student-centered, active, and inquiry-based learning methodologies. Experience in student learning assessment. Dedication to professional development. Excellent collaboration and interpersonal communication skills. Desired:

Experience in upper-level undergraduate teaching, instructional technology, and online learning. Engagement in collaborative instruction, such as co-instruction, group curriculum, or assessment design projects. Experience in handling large classes.

Application Instructions: Applicants are to submit the following documents in a single PDF:

Curriculum Vitae. Cover Letter (max. 2 pages) detailing your background in genetics, ecology, evolution, teaching experience, and professional development activities. DEI Statement (1 page) summarizing your past or intended contributions to diversity, equity, and inclusion initiatives in teaching. Assessment Example (max. 1 page) showcasing a genetics assessment with the associated learning objective. Description of Student-centered Teaching Methods and Collaborative Work (max. 2 pages) indicating your utilization of student-centered teaching methods and collaborative work experiences. Contact information for three professional references (references will be contacted during the screening process).

Position will remain open until filled;review of application materials will begin on January 15th, 2024.

Contact: For inquiries regarding the position, please contact Jason Gallant, Associate Professor of Integrative Biology and Chair of the Search Committee, at jgallant@msu.edu. To apply, please visit this website: https://careers.msu.edu/en-us/job/516847/instast-prof-fixed-term *Note: To be appointed at the rank of "Instructor", candidates must have achieved at least ABD status. For the rank of Assistant Professor (fixed-term), a Ph.D. must be earned prior to the appointment start date.

- Dr. Jason R. Gallant Associate Chair & Associate Professor Department of Integrative Biology Michigan State University East Lansing, MI 48824 jgallant@msu.edu office:517-884-7756 http://-efish.integrativebiology.msu.edu Click here to book time to meet with me!

"Gallant, Jason" <jgallant@msu.edu>

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MortonArboretum Chicago ProgramManagerResAssist

Are you interested in using genetics, ecology, big data, and/or spatial techniques for conservation? The Hoban Lab at The Morton Arboretum is hiring! The Morton Arboretum is a world renowned botanic garden and plant science ecology and evolution research institute with a research department of 35+ scientists, a highly collegial and supportive atmosphere, a strong emphasis on work life balance, a research building embedded in 1800 acres of forest and gardens, close proximity to Chicago, and a mission driven focus.

Come help us achieve our lab mission, which we created collaboratively as a team in 2020: to develop the knowledge and tools to strengthen conservation action and ensure adaptive capacity and resilience of biodiversity.

WHAT WOULD YOU DO: The Program Manager (full time, fully funded position):

- plans and executes conservation research projects including analysis, writing, publishing papers and presenting results at conferences - communicating with internal and external collaborators - professional development including networking, presentations, and skill development - helps plan and write grant proposals and ensure grant deliverables - manages data, supplies, and code across several projects - supervises and mentors interns and other team members - tests and improves protocols and standards

An ideal candidate will have at least a Master's degree, though an exceptional candidate with a bachelor's degree and 3+ years of practical experience would be considered. Someone with a PhD and looking for a career change, or a few years enhancing their CV, is welcome. This could be either a permanent position (5-10 years or more) in a conservation focused career, or a shorter (2-4 year) position to accomplish a few discrete projects and publications (e.g. to prepare for a next career step).

DESIRED EXPERIENCE: Applicants must have experience with one or more of (preferably more than one): spatial ecology/ GIS/ niche modeling; big data analysis or meta-analysis; species threat assessments; or population genetics. Skills in data management, teamwork and computer programming or R are necessary. Preferred experience includes DNA-based lab work (sequence capture, RADseq, microsats), basic statistics, laboratory or team management, and/ or conservation policy.

SUCCESS FACTORS: The applicant should be enthusiastic, curious, passionate for conservation, and self-motivated. They should be able to learn new skills, solve problems, communicate clearly in person and electronically, and cooperate with supervisors and co-workers. Strong attention to detail and meticulous record keeping (e.g. lab notebooks, coding, GitHub, file management) are essential!

WHO WE ARE: Our lab is a welcoming, supportive, collaborative, and diverse space, which supports growth and new ideas. The Tree Conservation Biology team, led by Dr. Sean Hoban, focuses on: guiding the management of plant conservation collections ex situ; proxies and indicators for genetic diversity; simulations and sampling design; understanding hybridization in the context of forest pests; biogeography and climate change; species threat assessments; and conservation policy. The team regularly collaborates with state and national agencies (US Forest Service, Fish and Wildlife Service, USGS, etc.) and national and international NGOs, and performs work in the US and Mexico to save critically endangered tree species. Examples of our research include: Rosenberger et al 2021, Backs et al 2020, Mastretta-Yanes et al 2023, Zumwalde et al 2022, and Hoban et al 2021. Example summaries of our work for non-research audiences include Griffith et al 2019 and Hoban et al 2022. There are opportunities for outreach, dissemination, guiding stakeholders, international and multi-sector collaboration, on the ground conservation, and policy advice. We also value mentorship and

supporting the next generation of tree scientists. Our lab mission and values are at hobanlab.com < https://-www.hobanlab.com/ >.

The position will start as soon as possible. Candidates are welcome to express interest, or ask questions, by contacting Sean Hoban (shoban@mortonarb.org). Apply at https://mortonarb.org/join-support/employment/-. Please explain your fit for the position and describe your experience in one or more of the following, or other relevant experience, in your application letter.

- Planning and executing research in the field of conservation biology - Experience in a molecular DNA lab (PCR, DNA extraction, target capture, microsatellites, DNA sequencing, NGS/ GBS); trouble- shooting and optimization of methods and protocols - Planning laboratory activities and keeping detailed lab notebook; ordering and managing supplies; organizing samples from multiple projects

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NHM Stuttgart BiodiversityMonitoring

The University of Hohenheim and the Natural History Museum Stuttgart are looking for a Full Professor in the area of Biodiversity Monitoring:

https://www.naturkundemuseum-bw.de/-en/jobs/detailansicht/professur-w3-fuer-biodiversitaetsmonitoring-in-verbindung-mit-leitung-der-abteilung-biodiversitaetsmonitoring As part of the "Integrative Taxonomy" initiative of the state of Baden-Württemberg, a Center for Biodiversity and Integrative Taxonomy (KomBioTa) has been established at the University of Hohenheim (UHOH) in cooperation with the Stuttgart Museum of Natural History (SMNS). To strengthen this area of research, we are seeking a dedicated and experienced individual to establish and serve as director of the SMNS's Biodiversity Monitoring Department. The selected individual will play a key role in promoting and strengthening these research activities and initiating close collaboÂ'rations with related departments at the University of Hohenheim.

In the Univeristy of Hohenheim's Institute of Biology (part of the Faculty of Natural Sciences) and at the State Museum of Natural Sciences Stuttgart, the following position is therefore to be filled in a joint appointment procedure at the earliest possible date:

Full Professor (W3) of Biodiversity Monitoring

in connection with

Director of the Biodiversity Monitoring Department

The joint appointment by the UHOH and the SMNS will be made according to the Jülich model. Appointment to the University involves an immediate leave of absence to perform duties at SMNS, where the tasks will predominantly be carried out. The SMNS is one of the most important natural history research museums in Germany and cooperates closely with UHOH in research and academic teaching. UHOH's Institute of Biology excels in high-level basic research in organismic biology, among other areas. Together, the two institutions provide an active and strong research environment for studies in systematics, biodiversity, and evolution.

Job description

Establishment and direction of the Biodiversity Monitoring Department at the SMNS, including planning and implementing biodiversity research projects. Expansion and methodological developÂ'ment of the molecular biology laboratory at the SMNS as a central institution for bioÂ'diversity research. Introduction of new ideas for interdepartmental networking and profile enhancing for research activities at the SMNS to strengthen its position as a leading international research institution. Close collaboration with related departments at UHOH to foster synergies in research and develop new interdisciplinary approaches. Contribution to the further development of the Center for Biodiversity and Integrative Taxonomy at UHOH. Teaching: 2 contact hours per week (SWS) at UHOH in German and English to get students excited about biodiversity research.

Expected qualifications

Demonstrated teamwork skills and experience leading research teams. Proven research achievements in the field of biodiversity research, preferrably in biodiversity monitoring at a high international level. Willingness to engage in a combination of field monitoring and analysis of the collection data to gain comprehensive insights into biodiversity. Sound knowledge of ecology, statistics, and taxonomy as well as expertise in molecular biology. Habilitation or equivalent scientific achievements including proven experience in university teaching, in acquiring and managing third-party funded projects, and corresponding publications. Ability to teach in German

and English on topics of biodiversity research, methods of monitoring, and aspects of organismic biology at UHOH.

The advertised position is tenured. With equal qualifications, preference will be given to candidates with disabilities. UHOH and the SMNS seek to increase the proportion of women in research and teaching, and strongly encourage qualified female scientists to apply. Please attach the following documents to your application: A statement of your research interests, a plan for establishing the Biodiversity Monitoring Department (max. 2 pages), a curriculum vitae, a documentation of academic achievements (copies), a list of publications, a list of third-party funded projects, a teaching record, information on teaching evaluations, and three key publications. Please send your electronic application (in German or English) by 15 November 2023 using the appointment portal. Questions can be sent to berufungen-natur@uni-hohenheim.de.

evoldir@posteo.de

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NortheasternU Biostatistics

The Department of Marine and Environmental Sciences at Northeastern University in Boston, Massachusetts invites applications from qualified candidates for a full-time teaching faculty position. The faculty member will teach courses that serve both our BS and MS degrees in Environmental and Sustainability Sciences as well as students from other programs (e.g., Public Policy and Urban Affairs, Civil and Environmental Engineering) interested in Marine and Environmental Sciences. Biostatistics and related recitations and labs will be a primary course assignment.ï¿½ Potential additional courses include Introduction to Data, as well as experiential courses as determined by the Chair of the Department of Marine and Environmental Sciences.

We seek broadly trained candidates with expertise in biostatistics, teaching in R, experimental design and implementation. Successful candidates could have a background in statistics, natural resource management, environmental geoscience, sustainability sciences, conservation biology, environmental/land use planning, environmental water quality/restoration, or related fields. Candidates must demonstrate a background in teaching statistics.

Applications are being reviewed now! Apply here: https://northeastern.wd1.myworkdayjobs.com/-careers/job/Boston-MA-Main-Campus/Assistant-Associate-Teaching-Professor–Marine-and-Environmental-Sciences_R116265-1 K. E. Lotterhos, PhD (she/her) Department of Marine and Environmental Sciences Coastal Sustainability Institute Northeastern Marine Science Center Nahant, MA 01908 I reply to emails mid-day on weekdays

“Lotterhos, Katie” <k.lotterhos@northeastern.edu>

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NorthernArizonaU PlantEvolution

Assistant Professor, Botany #607593

Job Description: The Department of Biological Sciences at Northern Arizona University serves more than 2,500 undergraduate majors across six bachelor-degree programs. The department has more than 100 students enrolled in graduate programs, both at the MS and PhD levels. With a strong tradition of teacher-scholars, the Department of Biological Sciences has research strengths in many areas of Biology, including Physiology, Ecology, Evolution, and Ecosystems Science, and Microbiology. The Deaver Herbarium is a nationally recognized research collection housing >130,000 plant specimens collected from 55 countries and from regional tribal and federal lands. All specimens have been added to the Southwestern Environmental Information Network web portal. Located in Flagstaff, Arizona at an elevation of 7,000 feet, Northern Arizona University allows unparalleled access to a variety of life zones and ecosystems on the Colorado Plateau.

Individuals are invited to apply for a tenure-track Assistant Professor of Botany/Plant Evolution in the Department of Biological Sciences at Northern Arizona University (NAU). We are seeking an individual with the expertise to serve as curator of the Deaver Herbarium and with related research interests in botany and plant evolution including the integration of genomic methods. Successful candidates will be expected to contribute to the BS, MS, and PhD programs in the Biological Sciences through teaching undergraduate and graduate-level classes in disciplines including botany, taxonomy, systematics, evolution, and genomics.

Successful candidates should demonstrate a strong com-

mitment to effective undergraduate teaching utilizing inclusive, data-driven pedagogies. They should also exhibit an ability to establish an active and welcoming research program that centers around the mentoring of NAU undergraduate and graduate students that leads to peer-reviewed publications. The ideal candidate will demonstrate a willingness to engage in outreach to agencies and tribes to promote the university'Âs mission and values, and serve on department, college, and university committees as fitting a tenure-track position.

Responsibilities Include:

* Offer existing and new classes to support an Ecology and Evolutionary Biology BS and the Wildlife Certificate; * Serve as Curator of the Deaver Herbarium which is also home to the Navajo Nation plant collection; * Develop a research program in botany/plant evolution; * Obtain external funding to support the herbarium and research; * Participate in service for the department, college, university, and discipline.

Minimum Qualifications:

* PhD with a research emphasis in Botany and/or Plant Evolution. * At least two semesters of teaching at the college/university level inclusive of teaching as a graduate student.

Salary: Anticipated salary range is $70,000 to $71,053. Annual salary commensurate with candidate's qualifications and related experience.

Application Deadline: Vacancy will remain open until filled. Applications received before December 11, 2023 will receive full consideration.

Please see nau.jobs < http://www.nau.jobs > for full job descriptions and details on how to apply online!

NAU is an Equal Opportunity/Affirmative Action Institution. Women, minorities, veterans and individuals with disabilities are encouraged to apply.

Grey Gustafson, Ph.D. Asst. Prof. 'Ã½ Dept. of Biological Sciences Curator 'Ã½ NAU Arthropod Collection Principal Investigator 'Ã½ NAILS Northern Arizona University 617 S Beaver St Flagstaff, AZ 86011 website: http://www.gustafsonlab.org/ Grey T Gustafson <Grey.Gustafson@nau.edu>

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NorthernMichiganU EvolutionaryBiology

The Department of Biology at Northern Michigan University is seeking applications for an Assistant Professor position to begin August 2024. This is a full time, 9-month, tenure-track faculty position that requires a Ph.D. in any biological field. Applicants who are ABD are eligible to apply provided the degree has been completed prior to the start date for the position. The successful applicant will be committed to excellence in teaching and mentoring students, and will have a strong record of research appropriate to the applicant's career stage.

The teaching assignment for this position will include teaching a 4-credit Introductory Biology course during both the fall and winter semesters as well as teaching a course(s) in the applicant's field of research interest during winter semesters. The successful applicant will be expected to establish an active research program, supervise MS thesis research projects, and provide opportunities for undergraduate students to engage in research activities.

Knowledge, Skills, Abilities, or Attributes Required for Satisfactory Performance of the Position Duties: Applicants must have a commitment to excellence in teaching. Successful candidates must have the ability to incorporate active learning strategies and establish an active research program with undergraduate and graduate students. In addition, candidates must have excellent oral and written communication skills.

Additional Desirable Qualifications

- Demonstrated teaching experience in introductory biology and other biological sciences - Experience mentoring undergraduate students - Record of peer-reviewed publication appropriate to career stage - Commitment to the mission of a public comprehensive university - Willingness and ability to work interdepartmentally - Record of successful grant writing

Northern Michigan University is rated as having a 'very high' undergraduate enrollment profile by the Carnegie Classification of Institutions of Higher Education. NMU enrolls students from a broad range of socioeconomic backgrounds, including a high percentage of first-generation college students.

The Biology Department has more than 700 undergrad-

uate majors and 30 M.S. students and is committed to excellence in classroom teaching, including experiential outdoor learning, while providing authentic research experiences for undergraduate and graduate students. The department is dedicated to student success through mentoring and career preparation. The department offers programs in a wide variety of biological sciences that lead to a range of career paths, and our courses also serve a range of other associate- and bachelor-level majors on campus. The department values diversity, equity and inclusion (DEI) and we are seeking candidates who support our efforts to provide equitable access to learning opportunities for all students. The successful candidate for this position must communicate an understanding of barriers to participation in educational and research opportunities faced by underrepresented students, and articulate their vision for promoting DEI at NMU.

Undergraduate majors offered by the Biology Department include Biology, Fisheries and Wildlife Management, and Neuroscience, with multiple concentrations in each major, and we offer several pre-professional tracks (https://nmu.edu/biology/programs#Type). The research focus of current department faculty spans diverse topics in biology from molecular biology to ecology, evolution, and organismal biology. Undergraduate and graduate student involvement is an essential component of successful research programs at NMU. In addition to teaching and research labs, the department manages a range of facilities and equipment for research and teaching, including a greenhouse, animal facility, confocal microscope, research zoology museum, aquatics laboratory, vehicles, and boats.

Northern Michigan University, with about 7,000 students and 194 degree programs, is located along the shore of Lake Superior in the vibrant, historic city of Marquette, consistently named a top spot in the nation to raise a family, vacation, and enjoy an excellent quality of life. See more at www.nmu.edu/marquette The closing date for this position is January 7, 2024. Applications received after that date will not be considered. All applications must include a letter of application, a curriculum vitae, and the following statements (2-page limit, single spaced for each): teaching philosophy, research plans, and the candidate's vision on how they would promote diversity, equity and inclusion for students from underrepresented groups at NMU. Finally, candidates should include unofficial transcripts and contact information (names, addresses, email addresses, and telephone numbers) for three references. To apply for this position please visit

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Peru ResTech LepidopteraSystematics

Subject:

Research Technician for project in tropical Lepidoptera systematics & ecology, Madre de Dios, Peru

Message:

We are seeking a Research Technician in Molecular Biology based at the Finca Las Piedras research station in Madre de Dios, Peru, to support the PROCIENCIA-funded project "Ecology and systematics of Lepidoptera in the Peruvian Amazon through in situ analysis of DNA barcodes" (PE501082173-2023). This project is led by Dr. Geoffrey Gallice of the Pontifical Catholic University of Peru, in collaboration with the Peruvian NGO Alianza para una Amazonía Sostenible PerÃo and several other international collaborators. Our group uses Lepidoptera as a model group to study Amazonian biodiversity and ecology using experimental and observational approaches in the field and laboratory. The Research Technician will be part of our effort to answer various questions using emerging technologies in a remote rainforest setting.

JOB DESCRIPTION

Job title & type: Research Technician in Molecular Biology - Independent Contractor Institution: Pontifical Catholic University of Peru (PUCP) Project PI: Dr. Geoffrey Gallice (PUCP) Compensation: PEN125,000 (approx. US$32,750 as of Nov. 2023) for the entire period of performance Period of performance: April 2024 - July 2025 (16 months) Location: On site at the Finca Las Piedras research station, Madre de Dios, Peru Position open to: Residents and non-residents of Peru (all nationalities) Call dates: Posted: 15 Nov. 2023; closing date: 31 Dec. 2023

About the Project

The project funded by PROCIENCIA aims to combine information regarding the morphology, distribution, natural & life histories, and ecological interactions of butterflies and moths in southeastern Peru with DNA sequence information (DNA barcodes) generated in the

field to study important questions surrounding the diversity and ecology of this key group of Amazonian organisms. To generate DNA barcodes, a field DNA laboratory equipped with a nanopore-based sequencer and other miniaturized equipment will be installed at the Finca Las Piedras research station located in the rainforest of Madre de Dios, Peru.

Scope of Work

The main responsibilities of the Research Technician (RT) are to 1) assist in the establishment of a field-based molecular genetic laboratory at Finca Las Piedras (FLP), 2) provide specific technical and research support to the project in the form of routine and novel molecular genetics techniques to conduct in situ DNA sequencing, and 3) be responsible for the smooth functioning of the molecular genetics laboratory at FLP, including keeping the lab organized, managing data collection, processing, and storage, ordering and stock-taking of materials, and ensuring health and safety in the lab.

The RT will also train and support experimental work by collaborators and students, solve technical problems as they arise, and assist in other relevant tasks as needed.

The RT will perform their work on site at FLP. Full room and board will be provided throughout the entire duration of the contract period.

Profile of the Research Technician

We are seeking a Research Technician with experience performing standard molecular genetic laboratory techniques (e.g., DNA extractions, preparation of DNA sequencing libraries, etc.) and the ability to use emerging technologies (e.g., nanopore-based sequencers) to conduct DNA sequencing, all in a field setting that presents unique challenges but also great opportunities. Therefore, you should have a strong desire to learn new techniques and an ability to adapt to new environments, be well-organized, have a proactive and self-motivated attitude toward problem solving, and have a willingness to support other team members.

Applications are welcome from Peru, other Latin American countries, or those from any other country. Fluency or proficiency in both Spanish and English are preferred.

Main Duties & Responsibilities

Research Duties

Be responsible, under the general guidance of Dr. Geoffrey Gallice and other project collaborators, for performing tasks required to achieve project goals independentlyConduct the routine preparation of tissue samples and libraries for DNA sequencing from field-collected and/or museum specimens on a nanopore-based sequencerSupport and/or lead the development and application of new laboratory techniques using portable, miniaturized equipment to perform field-based DNA sequencing-Maintain appropriate written and digitized records of research/laboratory protocols and results, and ensure proper data storageContribute to experimental work by project collaborators, staff, and studentsKeep up to date with new methods and contribute to the development of improved protocols and techniques, including solutions to problems as they arisePerform other relevant duties that may reasonably be expected by the project lead or collaborators in order to achieve the project objectives

Laboratory Management

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RutgersU MicrobialEvolution

The School of Environmental and Biological Sciences (SEBS) and the Department of Biochemistry and Microbiology at Rutgers University-New Brunswick invite applicants for a tenure-track position at the Assistant Professor level beginning Fall 2024. We seek a colleague who share our passion to achieve a healthy and sustainable future through excellence in research, teaching, and outreach in the area of evolution of microbial pathogens and/or antibiotic resistance.

This hire is part of a new evolutionary medicine faculty cluster that will catalyze research and teaching initiatives at Rutgers University in how we approach treating chronic and acute illnesses. We are particularly interested in expanding our faculty to include a scholar and educator working on the environmental, physiological, biochemical, and/or genetic dimensions of antibiotic resistance, including factors driving the development and transfer of antibiotic resistance, or developing new solutions to these problems, including discovery and development of new antimicrobials or characterization of antimicrobial targets, though any aspect of bacterial or viral pathogen evolution is of potential interest. These scholars and educators will broaden our existing strength in our understanding of microbiomes and their biotic interactions. Rutgers and SEBS are committed to diversity, equity, and inclusion. We especially encourage applications from backgrounds underrepresented in sciences including Black, Latine, Indigenous, and LGBTQ+

scientists. Successful applicants will prioritize and align with our values of inclusivity, interdisciplinary excellence and scholarly relevance leading to innovative research programs, student success, and community engagement. They will be competitive for external funding opportunities with the potential to establish an integrated research program and must be committed to teaching core and elective courses at the undergraduate and graduate levels and to mentoring research students at all degree levels.

To apply: https://jobs.rutgers.edu/postings/213834 Assistant Professor < https://jobs.rutgers.edu/postings/-213834 > The School of Environmental and Biological Sciences (SEBS) and the Department of Biochemistry and Microbiology invites applicants for a tenure-track position at the Assistant Professor level beginning Fall 2024. SEBS at Rutgers, The State University of New Jersey seeks a colleague who shares our passion to achieve a healthy and sustainable future through excellence in research, teaching, and outreach in evolution of microbial pathogens and/or antibiotic resistance. This hire is part of a new faculty cluster in Evolutionary Medicine that will catalyze research and teaching initiatives at Rutgers University in the emerging area of personalized medicine and shifting paradigms in how we approach treating chronic and acute illnesses. A core area of research pivotal to meeting many of the challenges that face humanity - from human health, to agriculture, to the overall health of the biosphere - is deciphering the biochemical language of life and understanding the various communication pathways that modulate bac jobs.rutgers.edu

Review of applicants will begin January 2 and continue until the positions are filled. Questions should be directed to the search committee chair, Dr. Gerben Zylstra (zylstra@sebs.rutgers.edu).

Siobain Duffy <duffy@sebs.rutgers.edu>

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RutgersU Microbiome

Multiple Tenured or Tenure-Track Faculty Positions in Microbiome Science (including Evolution)

Rutgers Health (Rutgers Biomedical and Health Sciences) is launching two new open-rank recruitments this month for tenure-Track or tenured faculty positions focused on microbiome research. This field is broadly defined and may include ecological and evolutionary research, as well as experimental or computational research. Each of these new faculty members will reside at the Center for Advanced Biotechnology and Medicine (CABM) and will have their tenure home in one of eight Clinical or Basic Science departments at the Robert Wood Johnson Medical School (New Brunswick/Piscataway, NJ). Persons with M.D., Ph.D., or both degrees are encouraged to apply.

These newly created faculty positions will play leading roles in strengthening the multi-disciplinary Rutgers University Microbiome Program (RUMP: https://-microbiome.rutgers.edu).

Please apply by December 1 for full consideration, using the university jobs portal:

https://jobs.rutgers.edu/postings/214257 Note that Rutgers is conducting multiple other related but independent searches in microbiology, so interested candidates may also consider those as well:

Microbial Evolution: https://jobs.rutgers.edu/-postings/213834 Microbial Metabolism: https://-jobs.rutgers.edu/postings/213592 GI Physiology and the Microbiome: https://jobs.rutgers.edu/postings/-213592 Michael Manhart <mmanhart@rutgers.edu>

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SouthDakotaStateU PlantConservationand HerbariumDirector

Assistant Professor of Plant Conservation and C.A. Taylor Herbarium Director in the Department of Natural Resource Management at South Dakota State University in Brookings, SD. The appointment encompasses teaching (50% time), research (40% time), and directorship of the C.A. Taylor Herbarium (10% time). The successful candidate will demonstrate interest in such as plant conservation biology, rare plants, plant systematics, or plant population ecology with special focus on plants in the northern Great Plains. Minimum requirements include a Ph.D. in hand by start date, record of relevant research evidenced by peer-reviewed publications, and knowledge of herbarium management. Preferred qualifications include postdoctoral experience, grant writing, and collaboration with local, state, federal, NGO, and/or

tribal entities on plant conservation or rare plants. Application deadline is Dec 1st 2023. For questions on the position, contact search chair, Dr. Lora Perkins at 605-688-4997 or Lora.Perkins@sdstate.edu. To apply, visit https://YourFuture.sdbor.edu, search for the position, and follow the electronic application process. For questions on the electronic employment process, contact Human Resources at 605-688-4128. Learn more about Brookings by visiting https://www.youtube.com/-watch?v=IT8OnH5eIgQ&feature=youtu.be . The department actively provides access to and opportunities for all to receive the benefit of and participate in education, research, and service and is especially interested in candidates that can contribute to this land-grant access mission. South Dakota State University is an AA/EO employer - vets, disability.

[South Dakota State University] Alison Coulter Assistant Professor (she/her) Natural Resource Management McFadden Biostress Laboratory 138, Box 2140B Brookings, SD 57007 P: (605) 688-6121 www.sdstate.edu @SDSUFishEcology https:/-/heraldwren.wixsite.com/acoulter "Coulter, Alison" <Alison.Coulter@sdstate.edu>

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StAndrews UK AquacultureGenetics

Vacancy: Breeding Programme Manager (Aquaculture Genetics)

Xelect is one of the largest aquaculture genetics companies, providing broodstock management and genetic improvement programmes for some of the best known producers globally. We support around 30 breeding programmes, in 12 different countries for 13 different species, including finfish, shrimp and bivalves. We provide our customers with a full range of genetic services and technologies, ranging from strategic consultancy for government agencies to full genomic selection programmes for some of the biggest producers in the industry. Our Breeding Programme Managers are the front line of everything we do at Xelect. With an expert team of biologists, geneticists, laboratory staff and bioinformaticians behind you, you will lead the genetics programmes for our customers, working directly with them to design, implement and develop their broodstock programme.

Our sector and company is growing fast, as we take on new customers all around the world, developing selective breeding programmes for new and established species, using the latest technologies. For our customers, working with you will be like having access to their own in-house genetics team, and you will work closely with them to design, deliver and optimize their selective breeding programmes.

The life of a Programme Manager - The role is extremely varied, challenging and rewarding. Key aspects of the role include: Design, co-ordinate and implement new genetics programmes that deliver significant commercial returns for our customers' businesses. Regularly visit our customers, developing strong personal relationships and getting a deep understanding of their production conditions and commercial goals. Manage the day-to-day running of our programmes, co-ordinating the necessary internal resources and acting as a virtual member of our customers' teams. Handle large datasets and work with our in-house customer databases. Perform and deliver the necessary phenotyping and selective breeding analyses using our in-house selection and simulation software. Liaise with our in-house specialist genetics laboratory to ensure that projects are delivered on time, on budget and to optimise the genetic tools required for your programmes. Provide hands on consultancy and support to our customers at key times in their breeding programme.

You'll be backed by a highly qualified multidisciplinary technical team of aquaculture experts, quantitative geneticists, bioinformaticians, software developers, molecular biologists and a strong commercial team. Our headquarters are in the medieval university town of St Andrews on the East coast of Scotland. We have a modern office building and a dedicated laboratory with three Illumina DNA sequencing machines. We have developed industry-leading genetic and bioinformatic pipelines including advanced mate selection software and new technologies for genomic selection. We work closely with several leading academic institutions, including the world-leading Roslin Institute.

A culture of excellence: As you would expect from a company that was initially a spinoff from the prestigious University of St Andrews, we set a very high bar for the scientific rigour of our work. We are continually working to advance the boundaries of our sector, and frequently participate in multi-national research programmes in aquaculture genetics and breeding. We retain active links with many leading scientific and academic institutions. We are committed to supporting your development including attendance to key networking events such as trade shows, online webinars and conferences As a recent example, Xelect was the lead in-

dustry partner on AQUA-FAANG, a 4 year EU funded programme to generate genome wide functional maps for the six most commercially valuable species in European Aquaculture. Xelect provided genetic consultancy, developing genetic tools for the project and also contributing research outputs, including a major white paper. Our largest shareholder, Genus PLC, is a world leader in the field of pig and bovine genetics, and we enjoy extensive scientific and technical collaboration with them on R&D projects.

Your skillsets: Our programme managers are highly experienced, adaptable individuals, who can develop and manage advanced breeding programmes, work well under pressure and have fantastic communications skills. Your skills and qualifications will include: - A minimum of a MSc relating to aquaculture, quantitative genetics, finfish/shellfish reproduction or animal breeding - Excellent written and spoken English - Knowledge and experience of hatchery and broodstock management, including aquaculture operations more widely for finfish and / or shellfish species - A practical understanding of the application of genetics within selective breeding - Excellent data management and computer literacy skills - High levels of motivation and a collaborative mindset, with a desire

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StonyBrookU ClimateChangeBiodiversity

Stony Brook University invites applications for a computational ecologist or evolutionary biologist at the rank of Assistant Professor in the area of climate change and biodiversity. This is a joint position between the Department of Ecology and Evolution and the Institute for Advanced Computational Science(IACS). The successful applicant will employ innovative computational and data science approaches to address the causes, consequences, and prevention of biodiversity loss in relation to the global climate crisis, and must display an interest and ability to collaborate with the breadth of interdisciplinary research ongoing at IACS. The candidate's teaching would be divided between courses in the Department of Ecology and Evolution and those serving IACS's existing certificate programs in data science and computation.

Review of applications will start on Oct. 23, 2023 and applications will continue to be accepted until Nov 6, 2023. For more information and to apply, please seeï¿½https://apply.interfolio.com/128054 . Pascal Title, PhD Assistant Professor pronouns: he/him Department of Ecology & Evolution | Stony Brook University https://www.pascaltitle.com Pascal Title <pascal.title@stonybrook.edu>

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UAlabama Birmingham ClonalEvolutionMachineLearning

To a computational biologist passionate about single-cell evolutionary genomics:

Would you be interested in studying clonal evolution in human diseases?

*Positions available: *

1. Postdoc https://www.uab.edu/postdocs/prospective-postdocs/available-positions/k232101 2. Bioinformatician I https://uab.taleo.net/careersection/-ext/jobdetail.ftl?job=T212163 3. Bioinformatician II https://uab.taleo.net/careersection/ext/-jobdetail.ftl?job=T212164 *About Us*

Dive into clonal evolution research with our computational research lab at the University of Alabama, Birmingham. We aim to unravel the mysteries of mutation and epimutation and how they affect the origin, progression, and therapeutic resistance of cancer and aging-related metabolic diseases.

Key Focus Areas

1. Modeling, Methods Development, and Machine Learning: Data representation, integration, and predictive modeling. 2. Large Scale Genomic Analysis: Single-cell, spatial, and multi-omics. 3. Collaboration for Impact: Translating discoveries into actionable insights.

Find Cures, Save Lives

Believing in the power of artificial intelligence, dedicated research, and team science, we're determined to accelerate the discovery and development of cures for cancer and life-threatening diseases.

Why Join Us?

1. Attain experience and expertise to excel in academia and industry.

2. Collaborate and connect with experts at the intersection of machine learning and medical research.

3. Work for the good and help improve patient outcomes.

Join us in the fight against catastrophic diseases as we push the boundaries of knowledge and strive to bring about positive change.

Changde Cheng, PhD

Department of Medicine

Department of Bioinformatics and Data Science University of Alabama at Birmingham

Email: ccheng3@uab.edu

Website: https://changde-cheng.github.io/ Changde Cheng <changde.cheng@gmail.com>

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UAlabama DeptChair EvolBiol

The University of Alabama, Tuscaloosa, invites applications for Chair of the Department of Biological Sciences. Applicants must have a Ph.D. and obtained the rank of Associate or Full Professor at their current institution. Evidence of significant intellectual contributions to their field of research, a strong record of publication and extramural funding, and a demonstrated commitment to teaching are required. The successful candidate is expected to foster, lead, and manage an integrative department with consideration of institute policies and procedures. The successful candidate should also demonstrate a commitment to the promotion of diversity and inclusion among faculty, staff, and students. While there is no defined research focus for the position, the successful candidate's expertise should complement and advance existing research within the department and university. Candidates with prestigious achievements in their field and exceptional national and international reputations will be eligible for consideration for significant endowment support through appointment as a Shelby Distinguished Professor https://provost.ua.edu/-Shelby/ . The Department of Biological Sciences has approximately 1,800 undergraduate students pursuing BS degrees in biology, microbiology, and marine science. In addition, the department currently has 130 graduate students enrolled in Biology MA and MS, Marine Biology MS, and Biology PhD programs.

The University of Alabama, part of The University of Alabama System, is the state's flagship university. An R1 top-tier research institution, UA advances discovery, creative inquiry and knowledge through cutting-edge research in more than 30 research centers. The College of Arts and Sciences offers an exciting and dynamic environment for faculty seeking to make an impact in their field and in the lives of the innovators and changemakers of tomorrow. The largest college, Arts and Sciences houses over 8000 students and 1000 faculty and staff across 25 departments. The College is committed to the liberal arts philosophy that fosters creative thinking and a lifetime of learning.

Questions about this position should be addressed to the search committee chair, Dr. Steven Thomas (sathomas16@ua.edu). To apply, visit https://-careers.ua.edu/jobs/search/AS. Start date is August 16, 2024. For additional information about the Department of Biological Sciences and this position, visit our website at http://bsc.ua.edu . Michael McKain <mrmckain@ua.edu>

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UBritishColumbia FungalDiversity

ASSISTANT PROFESSOR IN FUNGAL DIVERSITY Department of Botany in the Faculty of Science at the University of British Columbia, Vancouver.

Position Description The Department of Botany in the Faculty of Science at the University of British Columbia in Vancouver seeks candidates for a tenure-track Assistant Professor in the area of Fungal Diversity with an expected start date of July 1, 2024. Applicants conducting innovative research in the area of fungal diversity are encouraged to apply, including those who employ cell biology, molecular biology, genomics, taxonomy, phylogenetics, or related techniques, and whose research includes the collection and use of field samples, and/or museum collections to address fundamental questions on the diversity, ecology, comparative genomics and/or evolution of fungi.

The position requires a Ph.D. degree, postdoctoral expe-

rience and an exceptional research track record. Responsibilities include establishing and conducting an internationally competitive and externally funded research program, commitment to and excellence of teaching at both the undergraduate and graduate levels, supervising graduate students, and participating in service roles contributing to the department, university and academic/scientific community. The successful applicant will have a strong commitment to equity, diversity and inclusion to create a welcoming community for all, particularly those who are historically, persistently or systemically marginalized or disadvantaged. In evaluating candidates, we may also consider evidence of leadership within the candidate's community, contributions to fostering diversity equity and inclusion, and demonstrated interest in evidence-based teaching approaches. The position includes opportunities for strong interaction with UBC's Biodiversity Research Centre, Michael Smith Laboratories (MSL), Beaty Biodiversity Museum, UBC Botanical Garden, Faculty of Land & Food Systems, and the Faculty of Forestry.

The UBC Department of Botany has 30 research faculty members and is one of the strongest botanical/plant-science-focused departments in North America. We offer a wide range of research and educational programs (https://www.botany.ubc.ca/). The Department of Botany embraces research, teaching and learning at the frontiers of plant, algal, fungal, and protist biology. This organismal diversity is studied at all biological levels, from biochemical, molecular, genomic, and cellular levels, to the evolution of species and domains of life, and the ecology of populations, communities, ecosystems through to the biosphere as a whole. The department collaborates with the Department of Zoology to teach the UBC Biology undergraduate teaching program. The department has a strong tradition of enhanced educational experiences that engage students in research and the scholarship of teaching and learning. Research in the department is supported by the UBC Herbarium, microscopy infrastructure in the Bioimaging Facility (BIF), the Sequencing Consortium, and the Centre for Plant Growth. Botany Faculty occupy research labs located primarily in two adjacent modern research facilities, the Biosciences Building and the Biodiversity Research Centre.

Applicants should submit via Academic Jobs Online: https://academicjobsonline.org/ajo/jobs/26297 1. Cover letter (up to 2 pages) that summarizes: - Your research vision and accomplishments.

- How your expertise, scholarship, and planned research will integrate with the Department of Botany.

- How you have displayed leadership through existing or proposed research, teaching service, community engagement, outreach contributions to equity diversity and inclusion, or other relevant activities.

2. Curriculum vitae, including a list of publications 3. Statement (up to 2 pages) describing your current and proposed research program.

4. Statement (up to 1 page) of teaching philosophy/interests and accomplishments, addressing how you would teach core undergraduate courses in the UBC Biology program.

5. A diversity statement (1 page) describing (1) your past experience and future plans regarding working with a diverse student body, and contributing to a culture of equity and inclusion, and (2) your lived background experience (if comfortable discussing this - not including this will not count against your application).

6. Up to three representative publications in PDF format.

7. Names and contact information for three referees.

Applications must be addressed to Botany Head Shawn Mansfield and submitted via Academic Jobs Online https://academicjobsonline.org/ajo/jobs/26297. The closing date for applications is December 15, 2023 at 5pm (Pacific Standard Time).

Additional Information: The Vancouver campus of UBC is situated on traditional, ancestral,

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UCentralFlorida Two GeneticsPlantEvolution

We, the UCF Department of Biology (https://-sciences.ucf.edu/biology/), are looking for two good candidates to join our ranks at UCF as Instructor/Lecturers. See the specific postings at the links below:

UCF requires all applications and supporting documents be submitted electronically through the Human Resources employment opportunities website, https://-www.ucf.edu/jobs/ Instructor or Lecturer, Herbarium Curator, Plant Science Biology - R106567 The Department of Biology at the University of Central Florida

(UCF) invites applications for a full-time, 12-month, non-tenure earning instructor or lecturer, anticipated to begin August 2024. The successful candidate will be expected to teach two courses per academic semester in the undergraduate biology plant science track, based on the unit's current workload policy, and will curate the department's herbarium collection. We are especially interested in an individual who can contribute through their research, teaching and service to the diversity and excellence of our academic community and foster an environment in which faculty, staff, and students from a variety of backgrounds, cultures, and personal experiences are welcomed and can thrive.

Instructor or Lecturer, Genetics and Molecular Cell Biology - R106459 The Department of Biology at the University of Central Florida (UCF) invites applications for a full-time, nine-month, non-tenure earning instructor or lecturer position anticipated to begin August 2024. The successful candidate will teach three in-person courses each semester, including Genetics and Molecular Cell Biology, based on the unit's current workload policy.

Dr. Eric Hoffman

Professor and Associate Chair Department of Biology University of Central Florida

Eric Hoffman <Eric.Hoffman@ucf.edu>

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UdeSaoPaulo PlantEvolution

The Institute of Biosciences of the University of Sāo Paulo invites applications to fill one full time position at the rank of Professor Doctor in the Department of Botany, with a salary of R$ 14.761,02, in the area of "Systems Biology - Integrative and Predictive Biology". Applications must be received from 8:00 a.m (Brasilian Standard Time, UTC-3) on October 11th, 2023 to 6:00 p.m. (Brasilian Standard Time, UTC-3) on December 09th, 2023.

The program for the public competition is focused on animals, plants, and other living beings since the successful candidate will work in a multidisciplinary and interdepartmental scope, carrying out research, teaching, and extension activities that encompass the interests of the Institute of Biosciences in its full scope and includes the following 11 subjects: 1. Fundamental principles of complex biological systems. 2. Innovations in bioinformatics and statistical/mathematical approaches in analyzing large data sets. 3. Mathematical modeling applied to integrating mechanistic and functional data from biological systems. 4. Multiomics analyses applied to the study of biological systems. 5. Systems biology strategies for distinguishing noise and signals and proposing predictive indices for detecting new biological processes. 6. Functional enrichment analysis of gene, proteomic, and metabolic networks. 7. Applications of machine learning algorithms in research of complex biological systems. 8. Comparative proteogenomics for developing functional models of biological systems and processes. 9. Complex systems biology applied to studying physiological and pathophysiological functions and regulations. 10. Functional interactions at different scales: from cells to ecosystems. 11. Complex systems biology as a basis for disruptive research and theoretical and technological innovations.

Applications must be submitted online at https://-uspdigital.usp.br/gr/admissao For details, including procedures for validation of doctoral degrees issued by foreign institutions, please access: https://ib.usp.br/-mais-noticias/3404-abertura-de-1-vaga-para-docente-no-departamento-de-botanica-2.html or contact the e-mail "academica@ib.usp.br"

Assistência Acadêmica IB-USP <academica@ib.usp.br>

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UFlorida MarineInvertBiodiversity

Assistant Professor Faculty Position in Marine Invertebrate Biodiversity

The Department of Biology at the University of Florida invites applications for a full-time, nine-month tenure-track faculty position at the level of Assistant Professor in the broad field of Marine Invertebrate Biodiversity. The successful candidate will be expected to develop and maintain a robust, externally-funded research program, teach the undergraduate course Invertebrate Biodiversity and contribute to undergraduate and graduate education in Marine Biology within the Department of Biology. The anticipated start date for this position is August 16, 2024.

We anticipate that candidates for this position would investigate open questions in marine invertebrate biodiversity, using contemporary and comparative ap-

proaches.We interpret 'biodiversity' broadly to include all aspects of biology and marine biology from molecules to ecosystems. Marine invertebrates hold a deep diversity of animal life and have become more accessible as technological advances across disciplines have empowered research in many areas hitherto reserved for a small number of model animals. We seek to hire a researcher that uses marine invertebrates as the primary focus of their research, leveraging their broad diversity in a comparative framework to extend the impact of their research. Although the position is based primarily in the Department of Biology, there are opportunities for collaboration across neighboring and associated divisions, including but not limited to Whitney Laboratory for Marine Biosciences, the Nature Coast Biological Station, and the Florida Museum of Natural History, and other related institutes, e.g., Florida Institute of Oceanography.

The candidate will be expected to teach the undergraduate course Invertebrate Biodiversity, a required class for most Marine Sciences majors. Additionally, the successful candidate will be expected to develop new courses (those that incorporate lab and field teaching are preferred) and teach existing courses to support this growing undergraduate major.

Required Qualifications: Ph.D. or equivalent degree in Biology or a relevant discipline by August 16, 2024.

Applications will be reviewed beginning January 2nd, 2024, and the position will remain open until filled. Only complete applications will be reviewed at this time. Applications received after this date may be considered at the discretion of the committee and/or hiring authority. For full consideration, applications must be submitted online at: https://explore.jobs.ufl.edu/en-us/job/529241/assistant-professor-position-in-marine-invertebrate-biodiversity Please direct inquiries to the Search Committee Chair, Dr. Gareth Fraser: g.fraser@ufl.edu

A complete application includes:

(1) a letter of application summarizing the applicant's qualifications, interests, and suitability for the position (up to 2 pages);

(2) a complete curriculum vitae;

(3) a statement on research goals (up to 2 pages);

(4) a statement of teaching and mentoring philosophy, and courses the candidate would be interested in developing for our Marine Sciences major (up to 2 pages);

(5) contact information for at least three references.

After initial review, confidential letters of recommendation will be requested from references.

The Department of Biology has strengths in computational biology, molecular biology, developmental biology, ecology, physiology and evolution and seeks collaborative applicants who can contribute to a diverse and inclusive environment through their scholarship, teaching, mentoring, and professional service. The successful candidate will have the opportunity to use outstanding facilities and infrastructure at UF, including one of the fastest GPU AI supercomputers in academia (HiPerGator: https://www.rc.ufl.edu/about/hipergator/) and a comprehensive genomics and biotechnology core service center at the UF ICBR (https://biotech.ufl.edu/), and one of the largest marine invertebrate collections in the world at the Florida Museum of Natural History (https://www.floridamuseum.ufl.edu/iz/).

UF is the state's oldest, largest, and most comprehensive land grant university with an enrollment of over 50,000 students and was ranked 6thin the country among public universities (US News and World Report 2023 rankings), and 1st among public institutions in the Wall Street Journal 2023 survey. UF is located in Gainesville, a city of approximately 150,000 residents in North-Central Florida, 50 miles from the Gulf of Mexico, and 67 miles from the Atlantic Ocean, and within a 2-hour drive to large metropolitan areas (Orlando, Tampa, Jacksonville). The

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UHawaii MarineAdaptations

https://www.schooljobs.com/careers/hawaiiedu/jobs/-4259510-0/assistant-professor-marine-biology The School of Life Sciences (SoLS) at the University of Hawai'i at Manoa seeks candidates for the position of Assistant Professor of Marine Biology who use integrative approaches to investigate the underlying mechanisms for responses of marine organisms to environmental change. Research should connect organismal biology to global change issues, and may integrate multiple biological, spatial, and/or temporal scales. Research that will focus on Hawaiian species is of particular interest. The successful candidate can have research experience in any area of marine biology, including but not limited to physiological, ecological, or

evolutionary approaches to understanding organismal performance, evolution, or ecological interactions.

The University of Hawai'i at Maanoa (UHM) is a Native Hawaiian place of learning and a Carnegie Research 1 University with a strong emphasis on research and undergraduate and graduate education. Our vision is to be locally and globally recognized as a premier student-centered and community-serving university (https://-manoa.hawaii.edu/strategicplan/). The School of Life Sciences hosts the largest academic program on the University of Hawai'i's flagship campus, serving over 1,500 undergraduate majors and 150 graduate students for degrees in biology, botany, marine biology, microbiology, molecular cell biology, and zoology. Research interests of the 40 faculty members span all biological scales, with many focusing on ecology, evolution, and conservation biology. The School of Life Sciences is committed to serving our community and state and to excellence in research and teaching (https://manoa.hawaii.edu/-lifesciences/).

Duties and Responsibilities - develop and sustain an innovative, externally-funded research program mentor and advise graduate and undergraduate students in the School of Life Sciences - provide high-quality teaching in support of the Marine Biology B.S. and B.A. degree programs - develop and teach graduate courses in their area of expertise that directly contribute to one or more of the graduate degrees offered by the School of Life Sciences - serve on departmental, college, and university committees as appropriate - render service to the professional and local/regional community that is relevant to the individual's academic specialty

Minimum Qualifications 1. doctoral-level degree at the time of appointment 2. research experience in marine biology or a related field 3. excellence and creativity in research, as demonstrated by publications in peer-reviewed journals 4. ability to teach and mentor diverse students in core classes in the Marine Biology major, such as algal diversity, invertebrate biology, marine microbiology, marine ecology and evolution, or an advanced capstone course, among others 5. commitment to supporting the key principles of the School of Life Sciences, which are inclusiveness, personal and professional integrity, and the pursuit of excellence

Desirable Qualifications 1. postdoctoral research experience 2. evidence of external research funding 3. demonstrated experience and excellence in instruction of undergraduate and graduate courses in the life sciences, with an emphasis on marine biology 4. experience working with diverse student and community populations 5. vision of research that takes advantage of Hawai'i's unique location, resources, and faculty expertise in the School of Life Sciences, other university units, and state and federal agencies engaged in marine research

To Apply Click on the "Apply" button on the top right corner of the screen and attach the required documents. Applicant's must submit:

1. Cover letter in which you identify the position to which you are applying and indicate how you satisfy the minimum and desirable qualifications curriculum vitae 2. statement of research interests, activities, and plans (up to 3 pages in length) 3. statement of teaching philosophy, interests, and plans (up to 2 pages in length) 4. copies of up to three relevant publications 5. names and contact information (including email addresses and telephone numbers) for three professional references.

Content addressing the candidate's approach and commitment to diversity, equity, and inclusion should be directly incorporated into the research and teaching statements. Additional information about Manoa's

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ULisbon ResTech EvolutionaryAdaptation

Dear all,

The Adaptation in Complex Environments group at the University of Lisbon (cE3c/FCUL) is seeking to further expand our current research team by hiring a second full-time research technician. The position will involve a wide variety of tasks, and depending on the profile and expertise of the candidate could include the maintenance of populations of plants, spider-mites and predator-mites, performing experimental evolution, conducting experiments to quantify evolutionary changes in our focal organisms, or perform molecular biology tasksssuch asDNA and RNA extractions for sequencing.

In the Adaptation to Complex Environments group, we focus on how interactions between species shape the evolutionary trajectory and stability of systems with two or more levels of biological interactions. In our experimental tri-trophic ecosystems, rapid-cyclingBrassica rapaplants are attacked by spider-mites (Tetranychusurticae), while predators (Amblyseiusswirskii) prey

on the spider-mites and control their population size. We study how the presence of different types of ecological interactions affects the evolutionary dynamics of organisms, and use a combination of tools, such as experimental evolution, theoretical modelling, phenotypic assays, and genomic analyses.

We seek a candidate who is both reliable and enthusiastic about working with a diverse set of organisms. The candidate should be a flexible team player, able to adapt to changing circumstances and new tasks, and open to collaborate with colleagues from different backgrounds. The applicant must hold an MSc degree in Biology or a similar field, and should have experience in plant biology and/or entomology and/or molecular biology, and experience in planning and executing laboratorial experiments.

For applications follow the link: https://www.euraxess.pt/jobs/162602 Deadline:19thNovember2023

For any queries please contact:irfragata@fc.ul.pt

This position is funded by an ERC starting grant: https://shorturl.at/vyGP8 . For more information about the group at cE3c/FCUL: https://ce3c.ciencias.ulisboa.pt/sub-team/ace Inï¿½s Fragata <irfragata@gmail.com>

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UMaryWashington AnimalEvolution

Assistant Professor, Organismal Biology

The Department of Biological Sciences at the University of Mary Washington invites applications for an Assistant Professor (tenure-track) to begin August 2024. The department seeks a broadly trained organismal biologist, with a preference for expertise in the morphological, taxonomic, and/or ecological diversity of terrestrial animals. The appointee will teach upper-division courses in their area of expertise (e.g., chordate anatomy, entomology, plant-animal interactions), research design and biostatistics, and introductory biology. The ability to develop and teach additional courses that support each of our three majors is also desirable. Furthermore, the successful candidate will demonstrate a commitment to effective teaching in an inclusive environment which embraces diverse talents and backgrounds. The appointee will be expected to develop an original research program and inquiry-based courses that involve undergraduates at all levels of the research process. Internal funding for faculty development and summer research are available to enhance the research opportunities for faculty and students. The department recently moved into updated laboratory and teaching facilities in the renovated Jepson Science Center, which is well-equipped to support our teaching and research missions. Our location permits easy access to a wide variety of natural areas, some university-owned, for potential field sites. UMW is a public liberal arts and sciences university dedicated to high-impact learning for undergraduates. The Department of Biological Sciences offers majors in biology, conservation biology, and biomedical sciences, and supports other major programs in chemistry, biochemistry, and environmental science, along with minors in biology, neuroscience, and environmental sustainability. Recently recognized as a “Great College to Work For” by the Chronicle of Higher Education, UMW is centrally located between Washington, DC, and Richmond, VA. Fredericksburg is close tomany government labs, non-profit organizations, and private businesses offering opportunities for collaborative research and student internships. The appointee can look forward to joining a faculty of 14 who are committed to research which engages undergraduate students. This appointment is for an annual 9-month contract, with a teaching load of 12 credit hours per semester. Continuing professional development and participation in departmental and college-wide service are expected. Completion of the Ph.D. is required by August 15, 2024. Complete applications will include a cover letter, CV, statement of teaching philosophy, statement of research interests that would involve undergraduates, unofficial transcripts, and names of three references. Review of applications will begin Dec 15, 2023. To apply, please visit: http://careers.umw.eduPlease contact the search chair, Brad Lamphere (blampher@umw.edu), if you have questions about applying.

The University of Mary Washington is an equal opportunity employer committed to creating and supporting a diverse and inclusive work and educational community that is free of all forms of discrimination. This institution does not tolerate discrimination or harassment on the basis of age, color, disability, gender identity, genetic information, national origin, parental status, political affiliation, race, religion, sex, sexual orientation or veteran status. We promote access, inclusion and diversity for all students, faculty, staff, constituents and programs, believing that these qualities are foundational components of an outstanding education in keeping with our mission. The university is interested in candidates

whose experience and qualifications support an ongoing commitment to these core principles.

Brad Lamphere

Associate Professor, Biology

Jepson 431

(540) 654- 1426

"Bradley Lamphere (blampher)" <blampher@umw.edu>

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UMinnesota Bioinformatics

Hello - the Minnesota Supercomputing Institute is hiring a Data Manager to work specifically on large-scale biomedical research projects, and is looking for candidates with experience in the life sciences, computational biology, and research. This position will be an excellent opportunity to work with basic and applied researchers, and to expand your horizons and computational abilities. Projects include, but are not limited to, (human and lab animal) genomic studies, 3D modeling and scanning (MRIs, X-rays), and (human and lab animal) behavioral research. This is a hybrid position based in Minneapolis, Minnesota, at the University of Minnesota. Please see details on the posting, team, and institution at the following URL - the Institute has a strong history of recruiting and helping EEB alums (particularly evolutionary biologists) succeed in and develop a computational, bioinformatics-focused career: https://-www.msi.umn.edu/employment/data-manager Jeff Shi <jshi@umn.edu>

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UOttawa EvolutionaryEcology

Tenure track position in Evolutionary Ecology (bilingual French-English teaching requirement)

The Department of Biology at University of Ottawa invites applications for a tenure-track position at the rank of Assistant Professor. For this position, the successful candidate will demonstrate potential to build internationally-recognized and externally funded research program that fully engages trainees at all levels, building collaborations within and beyond our collegial, research-intensive department. Candidates must be able to teach in both French and English at the time of hiring at undergraduate and graduate levels. Exceptional candidates at Associate Professor level may also be considered. The starting date is July 1, 2024.

We seek to build on the Department's strengths in evolutionary ecology. Successful applicants to this position will be active on theoretical and/or empirical research at the broad interface of ecology and evolution, working at any level of biological organization, from molecules to biological communities, including (but not limited to) specializations like behavioural ecology, molecular ecology, and ecological genetics.

The successful candidate will join a research-intensive, growing department of 40 researchers working in a wide range of fields, including cell and molecular biology, physiology, ecotoxicology, neuroscience, developmental biology, ecology and conservation, evolutionary biology, and bioinformatics. The Department maintains close collaborations with researchers at the Ottawa Hospital Research Institute, University of Ottawa Brain and Mind Institute, Ottawa Heart Institute, Carleton University, federal science departments and agencies, and the Canadian Museum of Nature. The Faculty of Science provides access to core facilities for molecular biology, genomics, chemistry, microscopy and aquatic animal care to all of its members.

Additional details and to apply: https:/-/uottawa.wd3.myworkdayjobs.com/en-US/-uOttawa_External_Career_Site/job/Ottawa-ON/-Tenure-track-positions-in-evolutionary-ecology—BIO_JR7952 Howard Rundle <hrundle@uottawa.ca>

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UPittsburgh ResTech Polyploidy

Dr. Tia-Lynn Ashman and I (U. of Pittsburgh) are recruiting a research technician to study the consequences of polyploidy in a model plant system.

The technician will help create and maintain colonies of polyploid duckweed which are small aquatic fast growing plants. They will help conduct experiments exploring

the ecological and evolutionary impacts of whole genome duplication such as challenging to various biotic and abiotic stressors and conduct genetic analyses. They will collect and help interpret data as well as help with ordering materials. The work will be conducted in the lab or greenhouse. They will be integrated in both the Turcotte and Ashman lab and give presentations of their work at lab meetings and sometimes help other lab members with their experiments. They will also have an opportunity to conduct their own supervised research project. The technician needs to be organized and prioritize duties, be detail oriented, and communicate issues.

Full details and application link: tinyurl.com/az8jy2n4

Martin Turcotte, Ph.D. www.martinturcotte.net Assistant Professor, Department of Biological Sciences University of Pittsburgh

"Turcotte, Martin" <TURCOTTE@pitt.edu>

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UppsalaU EvolutionaryGenomics

The Department of Ecology and Genetics at Uppsala University, Sweden, is recruiting a Senior Lecturer (Associate Professor) in Evolutionary Genomics. The position will be affiliated with the Evolutionary Biology Program.

General information: The Department of Ecology and Genetics (IEG) is an international academic environment with approximately 150 affiliated colleagues. The research we do and the courses we teach at IEG span a wide range of topics, from ecology and genetics to ecosystem processes (visit www.ieg.uu.se < https://-www.ieg.uu.se/?languageId=1 > for more specific information). We are now looking for a person who can set-up and establish a long-term operation which will strengthen our research- and teaching expertise in the area of evolutionary genomics, and therefore announce a position as Senior Lecturer (Associate Professor) with specialization in evolution of sex, sexual conflicts and sex-chromosomes. The position will be affiliated with the Evolutionary Biology Program.

Description of subject area of the employment: Evolutionary genomics research revolves around the composition and features of genome sequences and how the genomes change over evolutionary timescales. The field(s) of research on evolution of sex, sexual conflicts and sex-chromosomes typically refers to the study of how selection shapes sex differences, what types of genetic changes that underlie sex-specific traits and how and why different sex-chromosome systems have evolved. The potential to generate large-scale data for both DNA-sequences and associated biomolecules now gives the opportunity to investigate the genetic basis of sex-specific traits, drivers of sexual dimorphism, underlying mechanisms and evolutionary solutions to sexual conflicts and sex-chromosome evolution at a previously unachievable level. The large-scale 'omics' efforts can ideally be combined with experimental work in organisms that can be reared under controlled conditions to verify for example associations between genotypes and traits. The subject area can therefore also be associated with both experimental evolution and population-, and quantitative genetics.

About the employment: The employment is a permanent position (probationary period may be applied). Scope of employment 100%. Starting date as agreed. Placement: Uppsala, Sweden

For more details about the position and a link to the formal application portal, please visit https://www.jobb.uu.se/details/?positionId=-634290&languageId=1 Please submit your application by 8 December 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 Niclas Backström <niclas.backstrom@ebc.uu.se>

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UVictoria SeniorMicroscopyAssistant

The University of Victoria is one of Victoria's largest employers and one of Canada's best diversity employers. Together we are more than 5,000 dedicated faculty, librarians and staff supporting the University of Victoria's diverse academic programs, world-class research

and commitment to civic engagement.

The salary range for this position is:

Recruitment range: $77,064- $84,968 starting salary determined by the PEA Collective Agreement.

Performance range: starting salary to max of $100,235 is available through annual performance increases.

Job Summary The Biology Department Electron Microscope (EM) Facility functions as a research and teaching platform and general resource for electron and light microscopy and imaging for the Biology Department.

The EM Facility allows for sample preparation and basic histology for microscope work, and is equipped with two Transmission Electron Microscopes, light microscopes, ultramicrotomes, and ancillary equipment. It also houses a FIB/SEM system owned by the Division of Medical Sciences.

Individual research labs also host several confocal and widefield microscopes.

The Senior Scientific Assistant (SSA) train graduate students and other researchers from diverse research labs in Biology in electron microscopy and sample preparation/sectioning, as well as in interpretation of images and results.

They carry out research projects in collaboration with faculty and other researchers, and advises them on technical approaches. They support undergraduate courses and labs, and work with faculty to obtain funding for upgrades and new equipment.

The SSA works collaboratively with other units on campus for example, the Departments of Chemistry, Biochemistry and Microbiology and the Division of Medical Science, who may also use the facility.

Job Requirements This position requires a MSc in Biology or a related discipline with a minimum of five (5) years' experience in operating light and transmission electron microscopes as well as sample preparation techniques.

An equivalent combination of education, training, and experience may be considered.

Knowledge, skills, and abilities include:

Demonstrated experience in diverse sample preparation methods (including fixation, dehydration, embedding, and sectioning) for both light and electron microscopy. Demonstrated experience in diagnosing problems related to both light and electron microscopy and related techniques Demonstrated experience in maintenance, calibration, and minor repairs for both light and electron microscopes. Demonstrated desire to learn new techniques and stay up-to-date in the field, and to promote new techniques to facility users and the Department Familiarity with ancillary techniques such as immunolabeling, histochemistry, and image analysis, including relevant software and other tools. Experience with widefield and confocal microscopes and related techniques (i.e. in-situ hybridization, immunostaining, and imaging fluorescent proteins) is highly desirable. Ability to work independently as well as collaboratively with all levels of university personnel. Superior analytical, problem-solving, and critical thinking skills Excellent communication and writing skills, demonstrating integrity and diplomacy in all interactions. Willingness to build productive relationships with diverse partners and collaborators. Demonstrated organizational and administrative skills, inducing the ability to manage multiple concurrent projects. We acknowledge and respect the LÉkï¿½"ÊÉÅÉn (Songhees and Esquimalt) Peoples on whose territory the university stands, and the LÉkï¿½"ÊÉÅÉn and WSÃNEÄ Peoples whose historical relationships with the land continue to this day.

Equity and Diversity Statement UVic is committed to upholding the values of equity, diversity, and inclusion in our living, learning and work environments. In pursuit of our values, we seek members who will work respectfully and constructively with differences and across levels of power. We actively encourage applications from members of groups experiencing barriers to equity. Read our full equity statement here: www.uvic.ca/equitystatement . Accessibility Statement If you anticipate needing accommodations for any part of the application and hiring process contact: uviccareers@uvic.ca Any personal information provided will be maintained in confidence.

Posting Close Date 21 November 2023

Posting link: https://uvic.mua.hrdepartment.com/hr/ats/Posting/view/10364 Greg Owens <grego@uvic.ca>

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UVienna EvolutionaryMarineBiology

Full Professor of Marine Biology Application deadline: 10 January 2024

The University of Vienna is internationally renowned for its excellence in teaching and research, and counts more

than 7,500 academics from all disciplines. This breadth of expertise offers unique opportunities to address the complex challenges of modern society, to develop comprehensive new approaches, and educate the problem-solvers of tomorrow from a multidisciplinary perspective. At the Faculty of Life Sciences, the University of Vienna seeks to appoint a full professor of marine biology.

The position: The successful candidate qualifies by an outstanding and internationally recognized research portfolio in marine biology (marine ecology) at the population, community or ecosystem level with a focus on, or including higher organisms (animals, multicellular plants). Scientists whose research programs complement existing areas and allow interaction with established groups at the Faculty of Life Sciences are encouraged to apply. Strong commitment to the further development of the discipline especially with regard to environmental change is expected. The professorship represents the discipline marine biology (marine ecology) in teaching at all levels of study (BA, MA, PhD).

Your academic profile: - Doctoral degree/PhD - Outstanding research achievements, excellent publication and funding record, international reputation - Proven leadership qualities - Experience in designing and managing large research projects - Enthusiasm for excellent teaching and supervision at the bachelor's, master's, and doctoral level - Willingness to take on organisational and administrative responsibilities within the Faculty and/or the University

We offer: - a dynamic research environment - a wide range of research and teaching support services - attractive working conditions in a city with a high quality of life - an attractive salary according to the Collective Bargaining Agreement for University Staff (ç98 UG, level A1, to be negotiated individually) and an organisational retirement plan - a "start-up package", in particular for the initiation of research projects - comprehensive relocation support

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

Application documents: Please submit a single PDF file (LastName_FirstName.pdf) containing the following information in English via e-mail to the Dean of the Faculty of Life Sciences of the University of Vienna, Karl-Heinz Wagner, (dekanat.lewi@univie.ac.at) until 10th of January 2024.

1. Letter of motivation 2. Academic curriculum vitae - education and training - positions held to date - parental, family or other care leaves as applicable - awards and honors - commissions of trust - previous and current cooperation partners - list of most important acquired third-party funding as principal investigator, and, if applicable, of inventions/patents - list of most important scientific talks (max. 10) - teaching and mentoring - supervision experience (Master and PhD) 1. List of publications and a link to your ORCID record 2. Research statement - most important research achievements (max. 2 pages) and planned future research activities (max. 4 pages) - synopsis of five key publications with relevance to the position advertised 1. Teaching and supervision statement - teaching and supervision concept, including a description of the previous and planned priorities in academic teaching and supervision (max. 2 pages)

Appendices to application document (in a single PDF or ZIP file named "LastName_FirstName_Appendices.pdf/zip"): 1. Five key publications as electronic full text version (if not publicly available) 2. Teaching evaluations (if available, compiled into a single PDF file) 3. Copies of certificates of academic degrees (mandatory, compiled into a single PDF file)

We look forward to new personalities in our team!

The University of Vienna has an anti-discriminatory employment policy and attaches great importance to equal opportunities, the advancement of women and diversity. We lay special emphasis on increasing the number of women in senior and in academic positions among the academic and general university staff and therefore expressly encourage qualified women to apply. Given equal qualifications, preference will be given to female candidates. University of Vienna. Space for personalities. Since 1365. Privacy Policy

Find further information on our webpage

— / —

Other

AmericanSocietyNaturalists DiversityCommittee

The ASN Diversity Committee (DC) seeks to add 1-2 new members starting in January 2024. The DC works to promote diversity, equity, and inclusiveness to enhance the study of evolution, ecology, and behavior and to foster the career of its developing scientists. We pursue initiatives that support marginalized groups, which include helping to create an inclusive, accessible environment at the Evolution conference, the stand-alone ASN meeting, and our field in general. Members serve a 3-year term, and the committee typically holds two meetings a month to discuss ideas and work on projects collectively.

Applicants must be members of ASN (join or renew your membership here: https://amnat.org/membership/beamember.html) and have attended at least one Evolution conference or ASN stand-alone meeting in the past.

We welcome participation from members of the community from all backgrounds and all countries, across all career stages (including graduate students and postdocs), and in all career paths. We are particularly interested in recruiting a graduate student and a tenured professor for the next cycle. We are looking for new perspectives and ideas. Applicants should submit an application < https://forms.gle/U9LcuQNrAQH6xdmV7 > using the online google form (https://docs.google.com/forms/d/e/1FAIpQLSfZ2d4uYvEVuPcFi5LildJYpMx4LdPLnoixDyTWWmfQQjNsh/viewform) by December 15 2023. If you have any questions, feel free to contact us at ASNdiversity@gmail.com.

"Carlen, Elizabeth" <carlen.e@wustl.edu>

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Crowdsourcing InclusiveEvolutionEducation Resources

Dear Colleagues,

We are compiling a resource for undergraduate evolutionary biology education. One of the first places students engage with evolutionary biology in-depth is in undergraduate courses, and evolutionary concepts can be confusing and difficult to grasp at this early stage. Furthermore, to facilitate a deeper understanding of evolutionary concepts within our classrooms and research community, it is important to address how exclusionary systems influenced foundational work in our disciplines, and how it continues to shape the way we study the natural world.

We know that many members of our community have already developed fantastic teaching materials, and our goal is to create a central repository of resources for inclusive undergraduate evolution education. We will share resources on this database monthly: https://tinyurl.com/inclevoedu. If you have any resources to share, we would greatly appreciate it. Please contribute resources and teaching materials by filling out a short Google form (should take <5 minutes to complete): https://forms.gle/Sjn9V3oezas9e8tG6. Please contact inclusive.evoedu@gmail.com with any questions, sug-

gestions, or if you'd like to contribute further to this effort.

Please forward this message to your networks.

Thank you! Alejandra Camargo Dr. Nancy Chen Dr. Kiyoko Gotanda Dr. Suegene Noh Amanda Puitiza Lucia Ramirez Juleyska Vazquez Dr. Yaamini Venkataraman on behalf of Women of Color in Ecology and Evolutionary Biology

– Nancy Chen, Ph.D. Assistant Professor Department of Biology University of Rochester popgenchenlab.github.io/

Pronouns: she/her/hers

"Chen, Nancy" <nchen11@UR.Rochester.edu>

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Drosophila Speciation Website

I have reinstated a website that may be of interest to those who are working on large-scale comparative studies in speciation:Drosophila-speciation-patterns.com This is a website developed for the purpose of accumulating and maintaining a comprehensive dataset on reproductive isolation and related biological variables in the Drosophila genus.

Cheers!

Roman Yukilevich Union College, NY

Roman Yukilevich <yukilevr@union.edu>

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MammalBiodiversity ImagingAwards Jan10

The Ranges Digitization Network (https://ranges-network.org/) is pleased to announce the first call for the Ranges Imaging Mini-Awards.

If you are faculty, staff, postdoc, student or researcher affiliated with an U.S. institution and need financial support to produce imagery via ï¿½CT scanning, diceCT, laser scanning or photogrammetry for your mammal trait-focussed research, then this award opportunity may be for you.

Applications are now being accepted. Learn more at (http://www.ranges-network.org/awards/).

Ranges Imaging Mini-Awards will enable researchers to extend their current research by collecting internal and potentially complex trait data at the intraspecific level that can be integrated with other specimen-level data digitized by Ranges, such as reproduction, habitat, geographic origins, or time. Projects focused on any aspect of morphological variation are welcome. Ranges, funded by NSF (DBI-2228385), seeks to digitize traits from over one million mammal specimens from 19 natural history museums, with a focus on western North America. The project will allow researchers to build better baselines for biodiversity and improve predictions of how mammals respond to changing environments to address major digitization challenges, expand the utility of specimens and use them to create new scientific knowledge.

DEADLINE: Applications must be submitted by January 10, 2024, 11:59pm Pacific Time.

-Bryan

Bryan McLean Assistant Professor University of North Carolina Greensboro Greensboro, NC 27402 www.mclean-lab.org *> explore UNCG Mammal < https://arctos.database.museum/-SpecimenSearch.cfm?guid_prefix=UNCG%3AMamm > and Parasite < https://arctos.database.museum/-SpecimenSearch.cfm?guid_prefix=UNCG%3APara > Collections via Arctos <* *> My working hours may not be your working hours. Please do not feel obligated to respond outside your normal working time. <*

Bryan McLean <b_mclean@uncg.edu>

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Online Evoltree NewTechnologies

EVOLTREE Online Seminar Series on "NEW TECHNOLOGIES FOR EVOLUTION & GENETICS"

A series of virtual events featuring leading experts advancing research in ecology & evolution through the application of new technologies. These include applications of remote sensing, artificial intelligence, nanopore

sequencing and CRISPR.

The series will be an opportunity to hear the latest from leading scientists in the field, exchange ideas and discuss potential collaborations and projects.

For more information: https://www.evoltree.eu/-webinars/webinar/new-online-seminar-series-on-new-technologies-for-evolution-genetics-november-2023 Registration to the webinars is open: https://-www.evoltree.eu/evoltree-online-seminar-series-fall-2023 Programme (Wednesday afternoons) 8th November 2023, 16:30-18:00 CET: Dr Tom August. Title: "New hardware and computer-vision tools are revolutionising biodiversity monitoring" 15th November 2023, 16:30-18:00 CET: Dr Lara Urban. Title: "Real-time Genomics for One Health" 22nd November 2023, 16:30-18:00 CET: Prof Jeannine Cavender-Bares / Mariana Hernández-Leal: Title: Spectral phylogeography and phylogenetics: Using foliar spectral signatures to decipher micro- and macroevolutionary processes in plants 29th November 2023, 16:30-18:00 CET: Prof Wout Boerjan. Title: "Genetic engineering of lignin in trees to improve biomass processing"

Christian Rellstab <christian.rellstab@wsl.ch>

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PhycologicalSociety AwardExcellence

The Phycological Society of America Award of Excellence Committee is soliciting nominations for outstanding phycologists who have had a major impact on the field of phycology through a sustained scholarly record, along with contributions in teaching and service. The Award is a career achievement award honoring a living phycologist.

We welcome nominations of scientists from all fields of research on algae and encourage nominations from within and outside of North America. Membership in the PSA is not a requirement for nomination. The nomination should highlight the candidate's service to PSA and/or other phycological societies.

Nominations are due by February 1st, 2024 or as soon as possible.

The award will be announced at the PSA annual meeting in Seattle in summer 2024.

Details about how to prepare the nomination package, nomination checklist and contact information, along with past awardees can be found at the PSA webpage < https://www.psaalgae.org/award-of-excellence >.

"Stacy A. Krueger-Hadfield" <sakh@vims.edu>

Poland Intern UngulateConservation

Myname is María Losada, a postdoc in Prof. Schmidt's team at the Mammal Research Institute of the Polish Academy of Sciences (MRI-PAS) in Bialowieza, Poland. There is an open call for a new internship position (https://ibs.bialowieza.pl/-ogloszenia/internship-offer-mammal-research-institute-mri-pas-bialowieza-poland/) in our current project entitled "The multilevel impact of predation-induced stress in ungulates on temperate forest ecosystem functioning" funded by the Polish National Science Center (https://ibs.bialowieza.pl/en/projects/the-multilevel-impact-of-predation-induced-stress-in-ungulates-on-the-functioning-of-the-temperate-forest-ecosystem/).

Main skills: - Speaking English fluently (Polish is not required, but it would be an advantage). - A driving license is not required but it may be helpful. - Basic knowledge of camera trapping, Trapper or other software for video classification, field sampling (ungulate feces collection and deer tracking), and laboratory techniques to be used (FT-NIR spectroscopy, CNH elemental analysis). This knowledge is not required but it will be useful for short-term internships.

Main tasks: - Field check-up of camera traps deployed across the Bialowieza Forest for large carnivore monitoring and video processing with Trapper software (https://trapper-project.readthedocs.io/en/-latest/overview.html) from the end of February to early April 2024. - Field collection of feces and urine of wild ungulates during March 2024. - Laboratory analysis of different samples (feces, urine, plants) using diverse techniques (C:N by elemental analysis, fiber and protein content by NIRS) from January to May 2024.

We are looking for 1-2 internship students from mid-January to mid-May 2024. However, these dates are tentative and could be adjusted to the student's calendar. Unfortunately, we cannot offer a paid internship, but we could help with the student accommodation at MRI-PAS facilities (https://ibs.bialowieza.pl/-

en/), next to the Bialowieza Forest National Park. (https://bpn.com.pl/index.php?Itemid=1&id=-104&option=com_content&task=view&lang=en).

Please find more details about the internship offer in the attachments, which we appreciate you sharing with the EvolDir community. Please do not hesitate to contact us if you need any additional information or requirements.

Thank you very much in advance,

Sincerely,

MaríaLosada

Mammal Research Institute, Polish Academy of Sciences Population Ecology Research Unit, Stoczek 1, 17-230BiaÂ³owieÂ¿a (Poland)

m.losada@ibs.bialowieza.pl

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RoyalSocietyPubl Issue Anthropocene

Royal Society Publishing has recently published a special issue of interest fromPhilosophical Transactions B:Evolution and sustainability: gathering the strands for an Anthropocene synthesiscompiled and edited by Peter Søgaard Jørgensen, Timothy M Waring and Vanessa P Weinbergerand the articles can be accessed directly atwww.bit.ly/PTB1893 A print version is also available at the special price of 40.00 perissue fromsales@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG http://royalsocietypublishing.org Registered Charity No 207043

This email is sent on behalf of The Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG, United Kingdom.

Felicity Davie <Felicity.Davie@royalsociety.org> Felicity Davie <Felicity.Davie@royalsociety.org>

Smithsonian NMNH GenomicAnalysisSupport

Okeanos Genome Skimming & Metabarcoding Project: looking for RFQ Contractor for Genetic Analysis Support

Quotes are dueï¿½to Allen Collins at COLLINSA@si.eduï¿½by 9:00AM ET, on Monday, November 18, 2023

The contractor shall provide professional, technical, non-personal services to the Department of Invertebrate Zoology to assemble, annotate, and upload mitochondrial genomes and ribosomal repeat regions to the public sequence database, GenBank, for Okeanos collected specimens using Illumina short read sequences (150 bp paired end, approximately 9-15 million reads per specimen). In addition, the contractor will process metabarcode libraries from eDNA samples and make the derived data public. Further details are included in the Statement of Work (Dated October 27, 2023). The period of performance is anticipated to begin around the start of January 2024, and run for 12 months.ï¿½

Please see https://naturalhistory.si.edu/-sites/default/files/media/file/-rfqokeanosgenomeskimmingmetabarcoding2023-10-27.pdf for full details.

“Murphy, Katherine R.” <murphykr@si.edu>

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SocStudyEvol 2024THHuxleyAward CallForNominations

The Society for the Study of Evolution (SSE) Education and Outreach Committee is pleased to announce the 2024 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 session or conference approved by the Huxley Committee (e.g., education session at annual Evolution meeting or the annual National Association of Biology Teachers conference).

*Deadline: *February 1st, 2024.

Learn more and apply here: http://bit.ly/2kP2pPM *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org communications@evolutionsociety.org

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SouthAfrica VolResAssist Bushbuck

BUSHBUCK RESEARCH ASSISTANT VOLUNTEER POSITION The Cape Conservation Research Centre (CCRC, https://capeconservation.co.za/) is a family run research centre based in Brenton-on-Sea, Western Cape, South Africa, offering opportunities for volunteers, students and interns. Our aim is to contribute to the conservation of the area, while also benefiting the local community. The project provides a fantastic opportunity to develop a range of skills, which is a perfect steppingstone for your future career in conservation, or simply to take time out whilst also giving back. We are looking for hands-on and passionate assistants to join our team and support our goals.

Key activities Discover the Enigmatic Bushbuck of Brenton-on-Sea! Brenton-on-Sea boasts a free-roaming bushbuck population, which, despite their close interaction with the local community, remain enigmatic. We invite you to join us on an exciting journey to bridge this knowledge gap and make a positive impact on wildlife conservation.

Population assessments: Delve into the lives of Brenton-on-Sea's bushbuck, unravelling their population dynamics, habits, and interactions.

Building an ID catalogue: Embark on a mission to create a comprehensive ID catalogue, documenting each and every bushbuck in the area. By doing so, you'll contribute to our understanding of gene flow and population status.

Exploring infraspecific behaviour: Witness nature's wonders up close as you study the intricate behaviours that define these beautiful antelopes.

Addressing human-wildlife conflict: Tackle critical issues affecting both the bushbuck and the local community. Together, we can find sustainable solutions.

Hands-on conservation: Make a real difference in preserving the bushbuck population by participating in snare removal activities. Help protect not only the bushbuck but also other wildlife in the area.

This is more than just a project; it's a journey. Join our dedicated team of volunteers in conducting transects, recording observations, and contributing to the long-term well-being of these magnificent creatures.

While our primary focus is on the bushbuck project, you'll have the chance to broaden your horizons. Get involved in bird point counts, beach clean-ups, environmental education initiatives, and even discover your creative side in pottery workshops. Don't miss this unique opportunity to be part of a transformative conservation effort. Brenton-on-Sea and its bushbuck population are waiting to share their stories with you. Join us in making a real impact on the environment and the community.

What we are looking for Everyone at the research centre is passionate about the work they do, so we are looking for someone who is excited to make an active contribution to the project. We are open to your background, what is important is that you are passionate about people and the environment. There are a few qualities that make you more relevant for the programme: prior experience with the project's field techniques or working in a southern African environment; being reliable, responsible and motivated to work hard; enjoy working as part of a team and be happy to operate under the authority of field research coordinators, whilst being competent working unsupervised; happy to work long and unsociable hours. Some activities involve long days of walking in hot and cold weather, so if you are applying for these activities, you must be prepared and able to cope with such conditions.

Salary and costs This is a volunteer role so no salary is provided, however you will be exposed to a range of research techniques and therefore this could be an integral stepping stone to your next role.

You will need to cover your own accommodation and food costs at the research centre. Accommodation costs are currently ZAR8,000 a month. All research and creative equipment is provided. Volunteers are responsible for their own airfare and travel to the centre and medical/travel insurance.

Just 400m from the beach, the research camp consists of a lounge, dining room, braai area and communal kitchen stocked with crockery, cutlery, fridges, freezers, a stove and microwave and drinkable tap water. Rooms are shared (2-4 people) and include linens, hot showers and flushing toilets.

How to apply Volunteer assistants are required immediately, and positions are ongoing. To apply for a position or for further details please contact Dr Leah Findlay at applications@capeconservation.co.za. Please include a brief description of why you are interested in working with us, your relevant experience or transferable skills, and what you think you can bring to the research centre. Please also state where you saw this advert. Students wanting to conduct a research project should also include a CV and contact details for two referees. Applications will be accepted until positions are filled.

Leah Findlay <wild-comm@outlook.com>

— / —

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

PostDocs

AMNH NewYork HerpetologyGenomics

Ecology and Evolutionary Biology Postdoctoral Research Associate

The Department of Herpetology at the American Museum of Natural History is advertising a postdoctoral research position available in the areas of evolutionary and genomic biology. The postdoctoral fellow will be based in the Burbrink Lab, and work in collaboration with Dr. Tiago SimÃµes (Princeton University) and Dr. Marc Tollis (Northern Arizona University) on the NSF funded collaborative project "The Genomic Basis of Evolutionary Innovations in the Squamate Tree of Life."

The postdoc will help with the main goal of exploring the genomic foundations of evolutionary innovations throughout Squamata (lizards, snakes, and amphisbaenians). The study will result in a clearer understanding of genomic-phenotypic relationships across broad taxonomic scales by comparing rates of evolutionary change across the phenotype and throughout the genome using a comprehensive sample of trait space from extant and extinct taxa and sequences from all protein coding and regulatory genes. The postdoc working with Dr. Burbrink will be responsible for producing high-quality whole genome data for squamates, which will include extracting high molecular weight DNA, performing quality control on samples, sending samples for sequencing, and assembling and annotating genomes. Additionally, the postdoc will help analyze integrated genomic data, develop computer code, and write manuscripts focusing on macroevolutionary analyses relating rates of genetic and morphological evolution across deep time.

Applicants should have the capacity to work both independently and collaboratively with team members. Ideal candidates will exhibit creativity and the desire to work in an interactive and inter-disciplinary environment.

Qualifications:

• Ph.D. degree in evolutionary biology, ecology, zoology, or a related field.

§Excellent writing ability in English.

§Experience handling whole genomic data.

§Strong computational skills and programming experience (e.g., Python, R or other languages).

§Creativity and the desire to work in an interactive and inter- disciplinary environment.

• A proven track record of scientific publications and conference presentations.

• Capacity to work independently and in collaboration with team members.

• Knowledge of squamate taxonomy is preferred.

This one-year appointment is expected to be renewed for a second year based on satisfactory performance. Research staff are entitled to university benefits. This position is subject to the University's background check policy.

Applicants must apply online at:

https://careers.amnh.org/postings/3904 For this application they must submit:

1. Cover letter outlining your research interests and suitability for the position (1 page) 2. Curriculum vitae including a complete list of publications 3. Up to three examples of published papers 4. Names and contact information of three academic references

Applications will be reviewed starting 03 November 2023. Expected start date is February 2024 (but is negotiable). For further information about the position, please contact: fburbrink@amnh.org

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.

Frank T. Burbrink, Ph.D. Chair, Division of Vertebrate Zoology Curator-in-Charge Department of Herpetology American Museum of Natural History Central Park West at 79th Street New York, NY 10024-5192

Website:https://sites.google.com/view/frank-burbrink-website/ Professor, Richard Gilder Graduate School, AMNH Adjunct Professor, Department of Ecology, Evolution and Environmental Biology, Columbia

University, New York Adjunct Professor of Biology, City University of New York, New York

Frank T Burbrink <fburbrink@amnh.org>

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Bergen Norway BrainEvolution

https://www.jobbnorge.no/en/available-jobs/job/-252545/postdoctoral-research-fellow-position-decoding-the-gelatinous-origins-of-brain-evolution Postdoctoral Research Fellow position : Decoding the gelatinous origins of brain evolution At the Michael Sars Centre, there is a vacancy for a postdoctoral research fellow position in the research group headed by Dr. Pawel Burkhardt. The position is for a fixed term of 3 years and is funded through the Human Frontier Science Program (HFSP).

The Michael Sars Centre belongs to the University of Bergen and is partner of the European Molecular Biology Laboratory (EMBL) (www.embl.de). The place of work will be at the Michael Sars Centre. The preferred starting date is between December 2023 and February 2024.

About the project/work tasks The Burkhardt group combines comparative biological systems in the laboratory to understand when and how the first neurons and nervous systems evolved. The group is particularly interested in studying the nervous system of the ctenophore (comb jelly) Mnemiopsis leidyi. As part of the Human Frontier Science Program (HFSP) grant received together with Fred Wolf (University of Göttingen and the Max Planck Institute for Dynamics and Self-Organization) our laboratory at the Michael Sars Centre is looking for a highly self-motivated and enthusiastic Postdoctoral Research Fellow with interests in evolutionary biology, neurobiology and cell biology. We will build on recent breakthroughs in organismal biology, molecular neuroscience, connectomics, neural circuit inference and neurotechnology to establish a data-driven account of Mnemiopsis' neural brain circuits and behaviour, to all-optically read and interrogate the state of its brain, and to test and validate computational models of its neuronal processing by cellular-resolution whole-brain imaging. The successful candidate will undertake research with the possibility to use a variety of techniques, ranging from generating transgenic reporter lines, CRISPR/Cas9-mediated genome editing, super resolution immunofluorescence and electron microscopy to study the ctenophore neurons and the aboral organ. The successful candidate will work in close association with the group leader, other lab members and collaborators in Göttingen with the aim to contribute to the further development of the project in line with her/his interests.

Qualifications and personal qualities: - The applicant must hold a Norwegian PhD or an equivalent degree in fields related to the project or must have submitted his/her doctoral thesis for assessment prior to the application deadline. It is a condition of employment that the PhD has been awarded - Strong motivation/enthusiasm to perform research at an internationally competitive level - Practical experience with CRISPR/Cas9-mediated genome editing, with different fluorescence imaging techniques and calcium imaging is highly desirable - Practical experience with different gene delivery methods is highly desirable - Specific experience working with non-bilaterian animals (preferably ctenophores) is beneficial, but not essential - The ability to work both independently and to cooperate with others in a structured manner is essential - Applicants must have excellent skills in oral and written English.

Special requirements for the position: The University of Bergen is subjected to the regulation for export control system. The regulation will be applied in the processing of the applications.

UNIVERSITETET I BERGEN e P h o r t e Michael Sars Centre Dato: 7.4.2021 Kommentar: minste startlønn Endret: bej

About the position of postdoctoral research fellow: The position of postdoctoral research fellow is a fixed-term appointment with the primary objective of qualifying the appointee for work in top academic positions. The fixed-term period for this position is 3 years. Individuals may not be hired for more than one fixed-term period as a postdoctoral research fellow at the same institution.

For postdoctoral research fellow positions associated with externally financed projects, the completion of the project proposal for the qualifying work, as well as a progress plan, will be developed in cooperation with the supervisor and head of department.

It is a requirement that the project is completed in the course of the period of employment.

We can offer: - A good and professionally stimulating working environment - Well-equipped, modern laboratories and facilities - Position as Postdoctoral Research Fellow (code 1352 in the basic collective agreement) And a gross annual salary of NOK 615.700 (equivalent to

pay grade 63) upon appointment. Further promotions are made according to length of service in the position. For particularly

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CarletonU PineBeetleResiliency

The Cullingham lab in the Department of Biology at Carleton University in Ottawa, Ontario, Canada is looking for a postdoctoral fellow with expertise in molecular ecology, bioinformatics, or systematics to support the

TRIA-FoR project. This research project is using genomic tools and resources to understand spread-risk and resiliency of Canadian pine forests to mountain pine beetle outbreaks. The research project is a national scale, multidisciplinary network of researchers led by Carleton University and the University of Alberta. The successful applicant will have access to an exome-capture dataset for lodgepole pine, jack pine, eastern white pine, and eastern red pine to expand their research portfolio in investigating the genetic architecture that underlies local adaptation, and resiliency to forest pests/pathogens.

The successful applicant will have the opportunity to collaborate with other universities, as well as government and industry partners to help develop their research portfolio and build their network. Funding is available for up to two years, and salary will be competitive including benefits.

Required qualifications: The candidate must have a PhD in the biological sciences or closely related field (e.g. Resource Management, Forestry, etc.), with documented experience in population genetics or systematics, and the application of bioinformatics to population genomic data.

Demonstrated conceptual and practical knowledge and skills in genomics, de novo transcriptome assembly, population genetics and genomics,comparative genomics, and genome evaluation

Ability to work independently and maintain motivation during long-term analyses,and when facing bioinformatic challenges that require problem solving

A demonstrated commitment to best practices of documentation and data management

How to apply: If you are interested in this position,please send your CV and cover letter to:

Catherine Cullingham, Assistant Professor, Carleton University catherine.cullingham@carleton.ca.

In your cover letter, please address how your experience meets the qualifications of the position.

Lauren Miner (she/her)

TRIA-FoR Project Manager

Cullingham Lab, Biological Sciences

Carleton University

https://tria-for.ualberta.ca/ Lauren Miner <LaurenMiner@cunet.carleton.ca>

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CBGP Montpellier PopGenomicsAfricanMice

Merci beaucoup!

Greetings to you all,

As part of a French ANR project, we are offering an 18-months postdoctoral contract in population genomics, to study the invasion dynamics of the house mouse in Africa. The successful candidate will be based at the CBGP in Montpellier, France.

You will find the detailed announcement by following this link < https://euraxess.ec.europa.eu/jobs/152272 > (application deadline Nov. 30, 2023).

Please spread the word! Best regards,

CarineBrouat (UMR CBGP), and Franck Prugnolle & Virginie Rougeron (IRL REHABS)

Lefebvre Margaux <lefebvremarg@gmail.com>

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CentreAlgatech Czechia ComputationalMicrobiology

Postdoctoral positions in Computational evolutionary biology: Genomics and metabolism prediction in microbial eukaryotes

Two postdoctoral fellows with a strong background in computational biology are sought at collaborating groups at the Czech Academy of Sciences. We aim to: 1) identify novel enzymes involved in microalgal nutrient cycling, photosynthesis and pigment biosynthesis; 2) understand protist relationships, interactions and metabolism from single cell transcriptomic data.

Algal Evolution and Ecology group at Centre Algatech, Institute of Microbiology in Trebon led by Jan Janouskovec and Eva Horakova. We study evolution, ecology, and molecular biology of protists (PNAS 114:E171-E180; Curr Biol 27(23), eLife 8:e49662; Nat Commun 13:7075).

Laboratory of Environmental Genomics at the Biology Centre, Institute of Parasitology in Ceske Budejovice led by Ales Horak. We study diversity, ecological roles and metabolic potential of unicellular eukaryotes (Curr Biol 26: P3060-3065; iScience 26: 107291; Comm x'Biol 6: 64).

We seek candidates with: - a Ph.D. degree in biology that included a sizeable computational component. - Experience with Linux terminal, scripting in Python or R, and genomics or phylogenetic analysis. - Creativity in omics data integration through computational pipelines. - Independent thinking and strong communication skills. - First-author publications in well-established journals and a record of research excellence.

We offer: - Strong, individual supervision, opportunities for networking and guiding Ph.D. and MSc. students. - Opportunities to work with collaborators abroad and present data at international meetings. - Contract for up to 3 years reviewed yearly. - Pay based on Czech academic pay grades with full health and dental insurance coverage and generous benefits including paid vacation of 30 days per year and lunch & recreation vouchers. - International work environment and ongoing collaborations with institutions in the EU and UK.

We have access to local and national computational grids (Metacentrum) and strong ties with the University of South Bohemia. Our institutes have high standards for research excellence, high proportion of international researchers and English as working language.

To apply: Please send a single PDF document in English containing the following information to Ales Horak (ogar@paru.cz) and/or Jan Janouskovec (janouskovec@alga.cz). The preferred start is at the beginning of 2024. All applications received by November 30, 2023, will be reviewed for the position advertised above. However, we encourage applications through December 31, 2023, as more positions may become available. - Motivation letter detailing your fit for the position (max. 1 page). - Curriculum vitae with a complete list of peer-reviewed publications (max. 2 pages). - Contact information for 2 academic referees (do not include letters with the application).

Jan Janouskovec <janouskovec@alga.cz>

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CharlesU Prague GutMicrobiotaEvolution

POSTDOCTORAL POSITION IN MICROBIAL METAGENOMICS

Position Overview: We are seeking a highly motivated and talented postdoctoral researcher to join our team. The postdoc will play a crucial role in designing, implementing, and interpreting metagenomic experiments using high-throughput sequencing data and manuscript writing. While the focus will be primarily on computational work, there will also be opportunities to contribute to field work, experimental work, or wet lab work if desired. The postdoc will also have the opportunity to develop his/ her own project related to our research focus. This position is part of a large collaborative project "Talking microbes - understanding microbial interactions within One Health framework", which aims to promote interdisciplinary collaboration between research groups working on different aspects of the interaction of the microbiota with its host and is funded by the Czech Ministry of Education. — About Us: We are a small research team based at the Department of Zoology, Charles University in Prague, Czech Republic. Our primary focus is the study of gut microbiota in free-living populations of various vertebrates, particularly murid rodents and birds. Our species of interest span a wide range of ecologies and geographical locations (Europe, Africa, Papua-New

Guinea). Our research primarily centers on the evolution of the gut microbiota, including its co-divergence with host phylogeny, the effects of the gut microbiota on host fitness, interactions between the gut microbiota and other gut symbionts (e.g., bacteriophages), and the role of microbiota in host speciation within rodent hybrid zones. Additionally, we investigate changes in the microbiota between free-living and captive populations, exploring the functional consequences of these transitions. — — For more details, please refer to our publications, available here: https:// www.researchgate.net/-profile/Jakub-Kreisinger.Qualifications: The successful candidate will have a Ph.D. in bioinformatics, computational biology, evolutionary biology, microbiology, or a related field and a strong background in genomics or metagenomics data analyses. Knowledge of programming languages such as Python or R and experience with bioinformatics tools and pipelines, is desirable. Duration:Two years (from January 1, 2024 to December 31, 2025), with the possibility of extension until May 2028, depending on the candidate's performance. — Salary: The gross salary is 55 thousand CZK (i.e. approx. 2,245 euros; the average gross salary in the Czech Republic is approx. 1,630 euros). The net salary is at least 46 thousand CZK (i.e. max. 15% tax;social and health insurance contributions are independent of the salary and are paid by the employer). — Environment: The post-doc will work in a small team led by Jakub Kreisinger at the Department of Zoology, Faculty of Science, Charles University in Prague, Czech Republic. The Department offers an international environment and modern equipment set in historical buildings, located close to the city center and surrounded by a botanical garden (https://www.natur.cuni.cz/eng/ about-the-faculty/campus-maps). It is easily accessible by public transport. Rich cultural and outdoor activities are available in the city and its surroundings. — How to apply: If you are interested in this position, please send your CV (including a list of relevant scientific publications), a cover letter explaining your research interests and suitability for the position, and contact information for two references to jakubkreisinger@seznam.cz as soon as possible. Please use the subject line "Postdoc application." Only shortlisted candidates will be contacted for an interview.

jakub kreisinger <jakubkreisinger@seznam.cz>

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ClarkU FungalEvolution

Postdoc: Fungal evolution Clark University

The Hibbett https://hibbettlablog.wordpress.com and Tabima https://tabima-lab.netlify.app labs at Clark University invite applications for a postdoctoral position in evolutionary mycology. The post-doc will conduct research in comparative genomics, phylogenomics and population genetics in the genus Lentinus, with a focus on the polymorphic species Lentinus tigrinus. More information about the project can be found here http:/-/lentinus.fungusfactfriday.com. Interests and expertise in basidiomycete systematics, phylogenetic methods, population genomics, and fungal development would all be assets (although no applicant is expected to have background in all these areas). The post-doc will also work with undergraduates and contribute to outreach activities involving students in the Worcester public schools and community mycologists. Up to 32 months of support is available, beginning as early as May 2024.

To apply, please send a curriculum vitae, statement of interests and goals, and contact information for three references to dhibbett@clarku.edu.

Clark University embraces equal opportunity as a core value: we believe that cultivating an environment that embraces and promotes diversity is fundamental to the success of our students, our employees and our community. This commitment applies to every aspect of education, services, and employment policies and practices at Clark. Our commitment to diversity informs our efforts in recruitment, hiring and retention. All positions at Clark share in the responsibility for building a community that values diversity and the uniqueness of others by exhibiting integrity and respect in interacting with all members of the Clark community to create an atmosphere of fairness and belonging. We strongly encourage members from historically underrepresented communities, inclusive of all women, to apply.

Founded in 1887, Clark was one of the first all-graduate institutions in the United States. Today the University is a highly-ranked, student-centered institution educating approximately 2,350 undergraduate and 1,150 graduate students. The Biology Department includes thirteen tenure-track faculty, with strengths in evolutionary biology and microbial biology (prokaryotes and eukaryotes). The Department supports sixteen PhD students and eleven Master's students. The Hibbett and Tabima labs

are located in the Lasry Center for BioScience and are connected by a shared interlab space.

Clark is located in Worcester, Massachusetts, a dynamic, diverse city on the rise. The second largest city in New England, Worcester is home to 11 institutions of higher learning and is increasingly recognized for its growing healthcare and biotechnology communities, its thriving cultural scene, and as a vibrant food hub.

David Hibbett <DHibbett@clarku.edu>

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Eawag Zurich
EpigenomicsRapidAdaptation

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research, education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems. The Department of Aquatic Ecology (Eco) located in Dübendorf has a vacancy for a

Post-doctoral researcher (80-100%) Rapid adaptation of Quagga mussels to multiple stressors (2.5 years)

The position is part of the international interdisciplinary applied research project "SeeWandel-Climate: Modelling the consequences of climate change and neobiota for Lake Constance". The ecosystem of Lake Constance is expected to undergo significant changes in the next few decades due to the interacting effects of continued climate warming and invasive species, such as the further proliferation of the quagga mussel that has recently invaded the lake. Existing long-term data and new data enable changes in the food web to be investigated, taking into account the interaction with climate change. The data is incorporated into simulation models that forecast the changing biology and ecology of Lake Constance for decades to come. The general goal of SeeWandel-Climate is to provide projections of the consequences of climate change and the impact of invasive species on the Lake Constance ecosystem and its sustainable utilization. The large collaborative project involves researchers from 7 institutions from Germany, Austria and Switzerland, working closely with authorities across borders relying on these projections to implement integrated management at Lake Constance. SeeWandel-Climate receives funding under the Interreg VI programme "Alpenrhein-Bodensee-Hochrhein (Germany/Austria/Switzerland/Liechtenstein)" which funds are provided by the European Regional Development Fund as well as the Swiss Confederation and cantons, and the international Lake Constance commissions "Internationale Gewässerschutzkommission für den Bodensee" (IGKB) and "Internationale Bevollmächtigtenkonferenz für die Bodenseefischerei" (IBKF).

The Quagga subproject aims to investigate invasive Quagga mussels' resilience under multiple stressors to predict how they will develop in the changing Lake Constance. Specifically, this project aims to 1) experimentally assess Quagga mussels' resilience to i) temperature stress, ii) oxygen limitation, iii) pollution and iv) resource limitation using laboratory experiments on shallow and deep mussels and comparing their associated epigenomics and transcriptomic signatures; 2) investigating DNA methylation changes in Quagga mussel populations collected in the field; 3) Monitor yearly the distribution of Quagga mussels in Lake Constance to better project their distribution in the future. This subproject also includes a collaboration with Francesco Pomati (Eawag) and Alexander Karatayev (Great Lakes Center, SUNY, USA).

The candidate is expected to: i) conduct fieldwork and lead multiple stressors experiments on Quagga mussels (single stressor and combined stressors), ii) generate and analyze whole-epigenome and transcriptome data from individuals from the field and from experiments, iii) participate in the yearly Quagga mussel monitoring at lake Constance, and iv) interpret and publish the project results through peer-reviewed articles and translational material dedicated to practitioners and stakeholders. There will opportunities to develop the postdoc's own research interests, and to assist in the supervision of Bachelor and Master students. The position can be filled at 100% for 2.5 years or at 80% for 3 years.

Ideally, the candidate has a strong background in evolutionary ecology and/or bioinformatics, and has recently earned a PhD in a relevant field of ecology or evolutionary biology. Fieldwork experience and experience in conducting laboratory experiments would be additional assets. We particularly value interest to interact with local practitioners and stakeholders. Hence, good knowledge of spoken and written German would be an advantage to appropriately communicate project results beyond a purely academic setting. Excellent communication skills in English and ability to work in a team are essential.

Applications should include a cover letter with a concise statement about your previous education and research experience, your mid-term career plans, and your motivation to work on this project (1-2 pages); a curriculum vitae including a publication list; copies of your academic qualifications; and names and contact information of 2-3 academic references. Applications must be submitted by 31st of December 2023. The position can start as early as March 2024 or upon mutual

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GhentU EvolutionMothCamouflage

GhentU.MothCamouflage Deadline 15 Dec. 2023 A fully-funded postdoctoral position acoustic camouflage in moths is available in the Evolution and Optics of Nanostructures (EON) group at the University of Ghent, Belgium and Naturalis Biodiversity Center in Leiden, Netherlands, in collaboration with the Free University of Amsterdam, Netherlands.

Camouflage is a cost-effective way to escape a predator's attention and has been widely studied, albeit mainly in the visual domain. Most moths are, however, night-active and therefore mainly need to defend themselves against bats hunting by sound, specifically through echolocation. To escape detection, moths may consequently have evolved scales on body and wings for acoustic camouflage, as these microstructures can in some species absorb ultrasound. However, little is known of how these diverse scales produce their remarkable effect.

The central aim of this project is therefore to identify form-function relationships of scales and scale assemblages producing acoustic camouflage.

In collaboration with EON, and Dr. Wouter Halfwerk's group in Amsterdam, the postdoc will measure morphological properties of different classes of body and wing scales and model their sound absorptive or scattering capacities and mechanisms of function.

They will then test form-function hypotheses via biomimicry, producing both analogues that directly mimic, and extend the variation in, scale morphology.

The postdoc will use electron, optical, and atomic force microscopy, acoustic measurements and modeling, and 3D replication/prototyping techniques. Experience with any or all of these techniques will be viewed favourably but is not essential. We encourage anyone with an interest in multidisciplinary research to apply, including those trained in fields outside biology. The position will be based in Ghent, but will involve some time in Leiden and Amsterdam. Most of the work will be lab-based, but there is potential for some fieldwork trapping moths in Europe or Panama.

Contract and Salary: The initial appointment will be for one year, with the possibility of extension for two additional years. Salary is competitive and commensurate with experience.

Eligibility: Open to all nationalities. A PhD in any field of science (preferably Biology, Physics, or Materials Science) is required by the time of admission.

Experience in scientific research is required. Proficiency with the English language (both written and spoken) is required, and familiarity with Dutch (or a willingness to learn) is advantageous.

Location: The University of Ghent is a large research-oriented university that is consistently ranked within the top 100 Universities worldwide. The Department of Biology has broad research expertise with an active community of faculty, post-docs and students. EON is a group of four post-docs, two PhD students and two PI's that values cooperation and collaboration as well as independence. Ghent is a beautiful small city in the heart of Europe that combines medieval architecture with a thriving arts and food scene.

How to apply: Please apply here: https://jobs.ugent.be/job/Ghent-Postdoctoral-fellow-9000/782969502 . You can also contact Dr. Matthew Shawkey (matthew.shawkey@ugent.be) with any questions.

Matthew Shawkey <Matthew.Shawkey@UGent.be>

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IGB Berlin eDNAplankton

Postdoc

IGB_Berlin.eDNAplankton

Postdoc position (2 years) in eDNA analysis of freshwater plankton communities.

The Department of Evolutionary and Integrative Ecology of the IGB in Berlin is looking for a Postdoctoral Researcher (f/m/x) to start on 1 March 2024, for a project using water and sediment eDNA to study all trophic levels of freshwater ecosystems.

The successful applicant will be part of a team aiming to integrate eDNA methods into the long-term research and monitoring program at IGB, and will be part of a multidisciplinary project investigating the environmental catastrophe in the Oder River of August 2022 (ODER-SO) which is funded by the Federal Agency for Nature Conservation (BfN). Specific applications of eDNA include the study of long-term changes to communities and the detection of invasive species.

Your tasks - Field sampling and laboratory eDNA analysis of freshwater species and communities - Statistical comparison of multiple methods of long-term research and monitoring, e.g., morphological and molecular - Interaction with multiple research groups using eDNA at IGB - Publication and scientific communication of the results

Your profile - PhD or equivalent in biology, ecology, bioinformatics, or similar - Experience with eDNA applications in freshwater - Knowledge of freshwater organisms - Experience in ecological data analysis using R - Willingness to collaborate - Good written and spoken English communication skills

Our offer

We offer an exciting job in a dynamic and international working environment with opportunities for flexible working hours and mobile working. Salary is paid according to the German (PhD) salary scheme for the public service (TVoeD Bund, 100%). This employment contract is limited to 24 months, but with potential for extension.

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.

We foster your career development by providing qualification and training opportunities. Applicants are treated equally regardless of gender. Qualified women are particularly 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 that includes a cover letter detailing your motivation and fit to the profile, a CV, and contact information for 2-3 references by 15.12.2023. Please state the job reference number 63/2023 and apply exclusively via our recruitment platform at www.igb-berlin.de/en/-jobs . Questions can be directed to Michael Monaghan by e-mail (michael.monaghan@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 96 independent public research institutes in Germany.

www.igb-berlin.de/en Prof Dr Michael T Monaghan Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB) Institut für Biologie, Freie Universität Berlin https://www.bcp.fu-berlin.de/en/-biologie/arbeitsgruppen/index.html https://www.mi.fu-berlin.de/en/bioinf/stud/arbeitsgruppen/index.html https://www.igb-berlin.de/en/ Michael Monaghan <monaghan@zedat.fu-berlin.de>

ImperialC London Three MicrobiomeEvolution

The —https://ransomelab.science/ —at the Silwood Park Campus of Imperial College London is seeking a microbial/ computational ecologist with strong quantitative skills interested in developing analytical pipelines to understand the role of the microbiome in supressing the pathogens of one of the world's most important staple crops, wheat (T. aestivum). We aim to do this through the analysis of multi-omic data from field surveys and manipulations of the extant soil microbiome. The project has two overarching goals: 1) to develop a lab-to-field pipeline for microbiome optimization in arable soils, focusing specifically on suppression of the take-all fungus, —Gaeumannomyces tritci, in the wheat rhizosphere; and 2) to advance our fundamental understanding of microbial community dynamics in complex environments. This project, a collaboration between the —https://www.waringecologylab.com/-, —https://mhasoba.pythonanywhere.com/-pawarlab, —https://graystock.info/ —and —https://-/bellmicrobelab.wordpress.com/ —labs, aims to find a new approach to supress this disease, which causes between 5-50% loss of production globally of one of the world's most important staple crops.

Through field surveys of soil associated bacterial, fungal and viral communities and microbial directed artificial selection in the lab, we will develop soil microbiomes that exhibit suppression of take-all disease in the greenhouse setting. Your role will be to develop bioinformatic pipelines, data analysis techniques, and innovative models to better understand the role of the soil microbiome in supressing —G.tritci —using metabarcoding and metagenomic data from the field and the lab. You will help to identify microbial taxa and/or metabolic networks which most strongly influence crop performance. You will work closely with other PDRAs on bacterial and fungal data and will lead the charge to understand the role of viruses in these communities. This may lead to companion experiments in the lab or greenhouse which you will help to design, allowing us to better understand the role of viruses in supressing crop pathogens. This will help you to advance your own career interests, with opportunities to develop collaborations that extend beyond our core group. Additionally, you will have the opportunity to connect with stakeholders who are collaborating directly with our project (including CABI, —Rothamsted Research) and the wider collaborative network of the Ransome Lab.

More details can be found here: https://-www.imperial.ac.uk/jobs/description/NAT01548/-research-associate-microbial-computational-ecologist-examine-pathogen-suppression-wheat-through
Reference NAT01548 Closing date 23 November 2023

The Bell Lab < https://bellmicrobelab.wordpress.com/- > at the Silwood Park Campus < https://-www.imperial.ac.uk/silwood-park/ > of Imperial College London is developing soil microbiomes that protect wheat from the devastating take-all disease caused by the fungus, Gaeumannomyces tritci. The team will take UK-wide soil samples to conduct soil microbiome engineering via directed artificial selection and run field-based trials. This advert is looking for a team member to conduct field sampling of soil microbial communities from sites across the UK. This project is a multi-disciplinary collaboration with the Waring < https://www.waringecologylab.com/ >, Pawar < https://mhasoba.pythonanywhere.com/-pawarlab >, Ransome < https://ransomelab.science/ >, and Graystock < https://graystock.info/ > labs.

Here we are seeking an environmental microbiologist to lead surveys of UK farms and field experiments. The main aim of the project would be to identify biotic and abiotic correlates of G tritci prevalence. We are particularly interested in identifying which components of the soil microbiome may hinder the growth and transmission of G tritci, and the degree to which the impact of microbial taxa on G tritci depend on the environmental context. Experience in surveying microbial communities in soil and measuring soil properties would be key requirements.

The successful applicant would join a team of 4 other postdoctoral researchers, two research technicians, and many post-graduate students in developing methods that use soil microbiomes to suppress G tritci. The

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INRAE Rennes InsectComparativeGenomics

THREE-YEAR POSTDOCTORAL POSITION IN COMPARATIVE GENOMICS OF INSECTS ERC-FUNDED ALTEREVO PROJECT INRAE (National Research Institute for Agriculture, Food and Environment), Rennes, France

Context. This postdoctoral position is to take part to the ALTEREVO project (2023-2027) funded by the European Research Council (ERC) and coordinated by Dr Jean-Christophe Simon, which aims at identifying the evolutionary and molecular determinants of plant-aphid interactions with a particular focus on host alternation. For more details on the project: https://www.inrae.fr/en/news/erc-grant-better-understand-plant-insect-interactions . Research environment. The French National Research Institute for Agriculture, Food, and the Environment (INRAE) is a public research establishment. It is a community of 12,000 people with more than 200 research units and 42 experimental units located throughout France. The institute is among the world leaders in agricultural and food sciences, in plant and animal sciences, and is 11th in the world in ecology and environment.

The research of the postdoc will be performed in JC Simon's team at INRAE IGEPP, in Le Rheu nearby Rennes, Brittany, France (https://-www6.rennes.inrae.fr/igepp_eng/). IGEPP is a joint research unit from three institutional bodies (INRAE, University of Rennes and Institut Agro). It provides excellent infrastructure to carry out comparative genomics in insects, including a bioinformatics platform (BIPAA at https://bipaa.genouest.org/is/) hosting dedicated genomic resources, databases and tools, fully equipped facilities for molecular and biological experiments on plants and insects, confined laboratories to work on genetically modified or quarantine organisms.

Research objectives of the position. Under the supervision of JC Simon, within an ambitious project involving other permanent and ERC-funded staff, the postdoc will perform comparative genomics to elucidate the evolution of the molecular mechanisms underlying adaptation to host plant in aphids. The postdoc will analyse whole-genome sequences from multiple aphid species (50 genomes are already available). He/she will also contribute to generate new high-quality assembled genomes for additional aphid species. The postdoc will benefit from scientific and methodological support from partners with excellent skills in evolutionary genomics (Dr Julie Jaquiï¿½ry), and bioinformatics (Fabrice Legeai and Stï¿½phanie Robin).

Expected skills. The applicant should hold a PhD in the field of comparative genomics or phylogenomics and an ability to conduct a research project in autonomy while being able to collaborate within a team. Skills and knowledge in molecular evolution and phylogenetics are crucial for the project. Experience in bioinformatics (genomics data analysis) is also required. Excellent skills in writing and communicating in English are expected.

Duration and salary. This 3-year (full-time) position will ideally start in February-March 2024. Net salary of ca. 2,500 euros per month (before taxes). Health care and social security are deducted directly from your salary, but you may need to take out a supplementary health insurance scheme.

How to apply. Application should contain a motivation letter, indicating the names and email addresses of two references, and a 2-page max curriculum vitae including publications. Send your application to jean-christophe.simon@inrae.fr by December 30th. Preselected applicants will be interviewed through Zoom or an equivalent video-conference system in January 2024. Call for applications is open until the position is filled.

Jean-Christophe SIMON, PhD INRAE, UMR IGEPP (Institut de Gï¿½nï¿½tique, Environnement et Protection des Plantes) Domaine de la Motte, 35653 Le Rheu Cedex, France Tel. +33 (0)223485154 Email : jean-christophe.simon@inrae.fr

Jean-Christophe Simon <jean-christophe.simon@inrae.fr>

iomE Mainz EvolutionSocialInsects

The Faculty of Biology, Institute of Organismic and Molecular Evolution, Department Behavioural Ecology and Social Evolution at the Johannes Gutenberg University of Mainz, Germany is looking for a

Postdoctoral researcher / Junior Group Leader

(m/f/d)

Evolution, Epigenetics and Genomics and/or Behavioural Ecology of Social Insects

for up to 4 ï¿½ years

Employment will be as a researcher (EG 13 TV-L, 100%) on a postdoctoral or junior group leader position, depending on the applicant's experience and interest.

We are looking for a collaborative early career researcher with a competitive publication record in the field of (molecular) evolution, genomics and/or behavioural ecology of social insects, preferably ants. Depending on prior experience, the position can be filled by a postdoc or a junior research group leader in order to establish a research team within the department. Applicants must hold a PhD and for group leader status, previous postdoctoral experience is expected. Knowledge of state-of-the-art molecular approaches including bioinformatics is important. The successful candidate should develop collaborative projects and participate in ongoing projects (e.g. on host-parasite coevolution, molecular regulation of division of labour and aging), including co-supervision of PhD students, and can pursue their own research projects. Fundraising and teaching experience are not required for the postdoctoral position, but are advantageous for the junior group leader, who should build an independent research group supported by extramural funding (e.g. DFG, ERC). The successful applicant is expected to make minor contributions to teaching in the new international Master's programme in Evolutionary Biology and the GenEvo Research Training Group (https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/ The research of the department composed of several international teams and headed by Prof. Dr. Susanne Foitzik, focusses on the (co-)evolution, behavioural ecology and epigenetics of social insects (https://www.blogs.uni-mainz.de/fb10-evolutionary-biology/research-groups/) and is part of the Institute of Molecular and Organismic Evolution iomE (uni-mainz.de). Scientific interactions with the other groups of the department and the graduate programme "Gene Regulation in Evolution" are expected. Our new JGU Biocentre I offers excellent research conditions with state-of-the-art laboratories for molecular genetics, chemistry, NGS sequencing and climate chambers for animal husbandry.

Johannes Gutenberg University Mainz is interested in increasing the proportion of women in science. Applications from female scientists are highly encouraged. Equally, preference will be given to qualified applicants with disabilities. Mainz University (https://-homepage.uni-mainz.de/) is home to many excellent scientific institutions, including the Institute of Molecular Biology (IMB, www.imb-mainz.de), and Mainz is a historic city on the Rhine with many students and a rich social and cultural life (Landeshauptstadt Mainz: Portal page | Homepage).

Interested candidates should send an application (as a pdf attachment including CV, publication list, statement on research interests, and contact information of two possible referees) to foitzik@uni-mainz.de

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hï¿½sch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840

Closing date for this position is 2nd of January 2024, online interviews will be held in January 2024, possible starting dates in the first half of 2024

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

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Madrid Computational MicrobialEvolution

Postdoc in computational biology at the Polytechnic University of Madrid

We are seeking to appoint an enthusiastic postdoc willing to contribute to our understanding of how mutation and recombination biases shape evolution in plant-associated bacteria, both from fundamental and applied perspectives. Your primary role will involve using comparative genomics and computer modeling to explore the forces that determine the evolutionary persistence of both natural and synthetic genetic elements. While the main project is curiosity-driven basic science, the post is embedded within a consortium deploying systems and synthetic biology approaches to agriculture. This consortium acknowledges that a fine understanding of the evolutionary forces influencing genetic constructs is crucial for this initiative.

The ideal candidate holds a doctoral degree in bioinformatics, comparative genomics, computer modeling, or similar. We expect a high degree of autonomy, with active participation in shaping the research direction. This position offers ample opportunities for career development, including the potential to co-supervise students, pursue funding opportunities, engage in teaching, and showcase your work at international conferences. The candidate will join the Centre for Plant Biotechnology

and Genomics (CBGP), a mixed research centre supported by the Polytechnic University of Madrid (UPM) and the National Research Council (CSIC). The position offers a competitive salary according to experience with all the benefits of the Spanish National Social Security System, comprising generous sick/maternity/paternity leaves and health, unemployment and retirement insurances. The post is available from January 2024 for 2 years.

How to apply: please send a single PDF file with a motivation letter and a CV to Alex Couce (a.couce@upm.es). Candidates short-listed for interview will be additionally requested contact information of two references. The post will be open until a suitable candidate is found - early applications are thus encouraged. Please include the word "eEMMA" in the subject line.

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

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

A Couce <a.couce@upm.es>

MNHN Paris ComplexTraitGeneticArchitecture

(Deadline extended to November 24th, please spread the word!)

We offer a 20 months position, working as post-doctoral fellow to improve our ability to study the genetic architecture of complex traits. The candidate will join Pierre de Villemereuil's team, at the Institute for Systematics, Evolution, Biodiversity (ISYEB), locate within the Muséum National d'Histoire Naturelle (MNHN) in Paris. This position is funded as part of the EvoGenArch Tremplin ANR grant. The position starts on 2024-01-08.

Scientific context Most traits of ecological and evolutionary relevance are complex traits, i.e. influenced by a large number of loci (named Quantitative Trait Loci, or QTL) in the genomes. The features of the QTL are often referred to as the genetic architecture of the trait. One of the most important collective feature to characterise such architecture is the distribution of the effect sizes (i.e. the phenotypic impact of replacing one allele for the other) of QTL. Current methods allowing for the study of such distribution of effect sizes make the same core assumption: all QTL are a subset of the genetic markers (generally SNPs) available in the genome. However, QTL should come in all possible variety of genetic variants. This distinction between markers and QTL is generally not problematic if the aim is to locate a region of interest in the genome, or perform genomic predictions. However, if the goal is to infer the distribution of effect sizes from an evolutionary perspective, this distinction between markers and QTL becomes highly important. Indeed, if many, or most, markers are only linked to causal QTL, then the amount of linkage disequilibrium between each QTL and the markers will distort the inferred distribution of effect sizes. If we want to have a chance to empirically test the evolutionary predictions from the theoretical models, it is thus necessary to evaluate the breadth of the issue and work toward solutions.

Job description The job will be mostly computational, based on data simulation, statistical inference and statistical modelling. Under the supervision of Pierre de Villemereuil, the candidate will have two missions: - Task 1 (10 months): Perform simulations to evaluate the amount of distortion generated by linkage disequilibrium in a scenario where QTL are not a mere subset of the available markers, by comparing theoretical, known distribution of effect sizes and the ones yielded by sate-of-the-art methods in such scenario. - Task 2 (10 months): Evaluate a solution for a statistical method that would distinguish between markers and QTL.

Requirements and profile - PhD in evolutionary biology, genomics, bioinformatics or related fields. - Track record of research activity and academic output (publications, conference communications, etc.). - Demonstrated ability to work as part of a scientific team, take on research tasks - Experience in and interest for computational biology, including e.g. data simulation in genomics or empirical statistical genetics. - Technical skills in R, Python or Julia are a requirement. - Background in even basic quantitative genetics will be highly appreciated.

Hosting lab & team Pierre de Villemereuil's research focuses on the genetics of adaptation, trying to understand how the levels of the genotype, phenotype and environment interacts to drive evolution in wild populations, notably in response to anthropic pressures. A combination of evolutionary ecology, quantitative genetics, population genomics and statistical modelling is necessary to unveil the patterns and processes of adaptation in the wild. The Institute for Systematics, Evolution, Biodiversity (ISYEB), located in the beauti-

ful Jardin des Plantes of the Muséum National d'Histoire Naturelle in Paris, is one of the largest labs studying evolution in the city. ISYEB hosts worldwide leading science in evolution, systematics, phylogeny, genomics and ecology.

Application Please send a CV/résumé, a short letter of application and a letter of recommendation or contact details of past supervisors to the address pierre.devillemereuil@ephe.psl.eu before 2023-11-24. A shortlist of candidates will be auditioned during the weeks following this deadline.

Pierre de Villemereuil <pierre.devillemereuil@ephe.psl.eu>

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MNHN Paris Paleobiology

Postdoctoral researcher in paleobiology

Project title: Dental growth parameters in notoungulates (Mammalia) Supervisors: Helder Gomes Rodrigues (CR2P, UMR7207), Guillaume Billet (CR2P, UMR7207)

Location: Muséum National dÂÂHistoire Naturelle, Paris, France

Contract Period: 12 months

Salary: Monthly gross between ?2 995 and ?4 200 depending on experience

We are looking for a postdoctoral researcher in paleobiology to work on a project investigating a striking caseÂ©\study of convergences in mammals. The project focuses on the biological meaning of dental specializations, such as continuous dental growth, and fast dental eruption found in several groups of extinct notoungulates in South America. The postdoctoral researcher will study dental growth parameters using histological sections and quantifying enamel growth lines. The goal of this project is to integrate these results within a comprehensive framework in order to evaluate the biological changes (growth, life history traits) associated with these dental specializations occurring repeatedly in notoungulates in a context of strong environmental, climatic and geological changes during the Cenozoic in South America.

Expertise in dental anatomy in vertebrates and solid knowledge in evolution and biology of mammals are requirements for the position. Experience with histological methods, dental microstructure and the interpretation of fossil material would be considered as an asset for the project.

Candidates should submit their application at the following link: https://emploi.cnrs.fr/Offres/CDD/UMR7207-MARFER-015/Default.aspx?lang=EN DEADLINE to send your application: December 31, 2023.

Please contact Helder Gomes Rodrigues (helder.gomes-rodrigues@mnhn.fr) or Guillaume Billet (guillaume.billet@mnhn.fr) for additional information.“

Helder Gomes Rodrigues <helder.gomes-rodrigues@mnhn.fr>

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NHM LosAngelesCounty FishMicroplastics

The Natural History Museum of Los Angeles County is looking for a postdoctoral researcher to assist on a two-year grant funded by the California Sea Grant and California Ocean Protection Council to examine microplastics in California marine fishes. This project will quantify and identify microplastics in multiple species along the coast from the 1940s to present using vouchered museum specimens housed at the NHMLA and other collections and aims to determine if trophic position or feeding behavior influence microplastic consumption. The ideal candidate will have experience working with marine microplastics. Experience with museum collections, ichthyology and RAMAN spectroscopy is desired, but not required. We are looking for someone who can start in January 2024, although start date is flexible. This project will require the postdoc to work onsite, as not all work can be completed remotely. For more information and to apply, please use the following link:

https://workforcenow.adp.com/mascsr/default/mdf/-recruitment/recruitment.html?cid=2fc0a355-012e-4bef-9c85-724ae074a06a&ccId=19000101_000001&jobId=-896771&lang=en_US&source=CC2 For more questions, please feel free to contact Bill Ludt: wludt@nhm.org

William Ludt <wludt@nhm.org>

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Paris PhylogeneticModelling

We offer a 18 months postdoctoral position to advance our understanding in macroevolutionary dynamics using phylogenetic methods. The successful candidate will work under the supervision of Ignacio Quintero at the Ecole Normale Supérieure in Paris. This project is funded as part of the Tapestree Tremplin ANR grant and will start as early as February 2024. Salaries depend on experience.

The aim is to develop process-based phylogenetic models that directly examine the interplay of species diversification and trait evolutionary dynamics under a probabilistic framework. The new models will be implemented in the Julia language as part of the Tapestree.jl ecosystem (Quintero et al. 2022). Candidates do not need previous knowledge of Julia, but programming experience is a prerequisite (R, Python, C, etc.). We encourage applicants of various backgrounds with strong quantitative and computational skills, and that are interested in modeling biodiversity dynamics over macroevolutionary time.

The postdoctoral researcher will work with Ignacio Quintero and will be part of the larger Héléne Morlon's group at the Institute of Biology of the Ecole Normale Supérieure. The IBENS is a multidisciplinary research center in Biology with more than 300 staff members, conveniently located in the Latin Quarter in downtown Paris. The centre develops research in a wide range of disciplines, including evolutionary biology, ecology, computational biology, genetics, and comparative genomics.

To apply please send: i) a cover letter describing your interest in this position, ii) a Curriculum Vitae, and iii) the contact information for at least two references. Further information, questions and applications should be sent to Ignacio Quintero (ignacio.quintero@bio.ens.psl.eu). Reviews will begin immediately until the position is filled.

Ignacio Quintero Mächler -CR CNRS

Institut de Biologie de l'Ecole NormaleSuperieure (IBENS) CNRS UMR 8197 46 Rue d'Ulm, 75005 Paris, France

quintero@bio.ens.psl.eu quintero@bio.ens.psl.eu

SGN Frankfurt MammalEvolutionaryGenomics

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with more than 800 employees and research institutions in seven federal states. The Senckenberg Biodiversity and Climate Research Centre (BiK-F) explores the interactions between biodiversity, climate, and society.

The Senckenberg Biodiversity and Climate Research Centre invites applications for a

Postdoc Researcher (m/f/d) in Evolutionary Genomics of Mammals

There is an exciting opportunity for a talented and motivated applicant to join the working group of Prof. Dr. Axel Janke. The applicant will be closely involved in gene flow, evolutionary-, population or phylo-genetics to study speciation in mammals (bears, giraffe, kangaroos or allies) at the genomic level. Strong own and proven research interests including other vertebrate groups will be considered.

Your profile

PhD degree in Biology, Genetics, Bioinformatics or a related fieldStrong interest and proven skills in evolutionary-, population- or phylogenomics. Knowledge in gene-flow analyses and/or drift process are an advantageExperience in genome assembly & annotation and programing of scripts, RVery good written and oral communication skills in EnglishInterest to be involved in an international and interdisciplinary group to expand the work to species distribution modeling, paternal inference and conservation genetics

What is awaiting you?

a workplace in a central location with good transport connections in the heart of Frankfurt - flexible working hours - opportunities for mobile working - support with childcare or caring for family members (certified by the "audit berufundfamilie") - Senckenberg badge for free entry in museums in Frankfurt - special annual payment - company pension scheme

Place of employment: Frankfurt am Main

Working hours: full time, part-time optional (at least

80%)

Type of contract: The contract should start preferably on February 1st, 2024 and is limited to two years

Salary: according to the collective agreement of the State of Hesse (pay grade E 13, TV-H)

Senckenberg is committed to diversity. We benefit from the different expertise, perspectives and personalities of our staff and welcome every application from qualified candidates, irrespective of age, gender, ethnic or cultural origin, religion and ideology, sexual orientation and identity or disability. Women are particularly encouraged to apply, as they are underrepresented in the field of this position and will be given preference in the case of equal qualifications.

Applicants with disabilities ("Schwerbehinderung") will be given preferential consideration in case of equal suitability. Senckenberg actively supports the compatibility of work and family and places great emphasis on an equal and inclusive work culture.

You would like to apply?

Then please send us your complete and informative application documents (CV, letter of motivation, academic transcripts and certification / credentials, two relevant publications, and contact details of two potential references to) in electronic form (as a single PDF file) by 07.01.2024 to recruiting@senckenberg.de, quoting the reference number #11-23015-1, or apply directly on our homepage using the online application form.

Senckenberg Gesellschaft für Naturforschung

Senckenberganlage 25

60325 Frankfurt a.M.

E-Mail: recruiting@senckenberg.de

For scientific enquiries please contact Prof. Dr. Axel Janke, axel.janke@senckenberg.de .

For more information about the Senckenberg Gesellschaft für Naturforschung, please visit www.senckenberg.de . Yours sincerely,

Jasmin Reitinger

Referentin Recruiting/HR Department & Personalmarketing

SENCKENBERG Gesellschaft für Naturforschung (Rechtsfähiger Verein gemäß ç 22 BGB)

Besucheradresse: Mertonstrasse 17 - 21 / Jügelhaus 1OG Zimmer 1.064

Postanschrift: Senckenberganlage 25, 60325 Frankfurt am Main

Telefon/Phone: +49 (0)69 / 7542-

Abteilungsleiter Personal/Human Resources

- 1450 Falk von Salm, Patrick

Stellv. Leiterin Personal/Human Resources

-1458 Loke, Uta

Recruiting/HR Department & Personalmarketing

-1564 di-Biase, Maria

-1478 Gajcevic, Isabel

-1204 Reitinger, Jasmin

Fax: +49(0)69 / 7542-1445

Mail: recruiting@senckenberg.de

Direktorium: Prof. Dr. Klement Tockner, Prof. Dr. Angelika Brandt, Dr. Martin Mittelbach, Prof. Dr. Andreas Mulch, Präsidentin: Dr. h.c. Beate Heraeus; Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

Vernetzen Sie sich mit uns: www.senckenberg.de/-socialmedia

"recruiting@senckenberg.de"
<recruiting@senckenberg.de>

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Smithsonian BenthicInvertebrates

Postdoctoral Researcher Position: Zoologist and/or Biologist (Postdoctoral Fellow) - Benthic Invertebrates——

One vacancy at the Smithsonian Marine Station at Fort Pierce, Florida.— Application Deadline EXTENDED: December 8, 2023— Location: Fort Pierce, FL— Compensation: $73,639 - $78,547 / year— Workplace type: Hybrid—

Please see advertisement for more details:—https://-/trustcareers.si.edu/postings/343e49c5-cc88-419a-800c-ec3760d4305f The Smithsonian Institution provides reasonable accommodation to applicants with disabilities where appropriate. Applicants requiring reasonable accommodation should contact the Human Resources Specialist listed. Determinations on requests for reasonable accommodation will be made on a case-by-case basis. To learn more, please review the

Smithsonian's Accommodation Procedures.——

The Smithsonian Institution is an Equal Opportunity Employer. We believe that a workforce comprising a variety of educational, cultural, and experiential backgrounds supports and enhances our daily work life and contributes to the richness of our exhibitions and programs. For more information on the Smithsonian EEO program please see http://www.si.edu/oeema.—— Conditions of Employment—— Pass a pre-employment background investigation.—— Direct deposit/electronic funds transfer is required for salary payment.—— The position is open to all candidates eligible to work in the United States. Proof of eligibility to work in the U.S. is not required to apply.——

"Murphy, Katherine R." <murphykr@si.edu>

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Smithsonian ResFellowship FreshwaterCopepod

Dear Colleagues,

We have extended the fall application deadline to 7 January 2024 for the Edward B. and Phyllis E. Reed Research Fellowship. Information about the fellowship can be found at: https://fellowships.si.edu/Reed . This fellowship enables research on North American freshwater copepods. All copepod biologists actively engaged in research that includes North America freshwater copepods, whether it be collections-based (e.g., systematics, phylogeny, biogeography, comparative morphology, functional morphology, diversity), ecology, conservation or other areas are encouraged to apply.

Awardees are not required to be in residence in the Washington, D.C. area nor to spend a significant amount of time working in the Smithsonian NMNH Department of Invertebrate Zoology during the fellowship.

We are currently able to offer a one-time extended fellowship (up to one year). For more information, please contact Karen Osborn, Curator of Crustacea, Smithsonian NMNH osbornk at si.edu.

We especially encourage applicants proposing work on the newly digitally catalogued Frey North American Freshwater Plankton collection.

Please contact Karen Osborn with any questions about possible projects and applications.

Best wishes, Karen

Karen Osborn Research Zoologist/Curator of Polychaetes, Peracarids and Plankton Department of Invertebrate Zoology w 202.633.3668 osbornk@si.edu http://orcid.org/0000-0002-4226-9257 Mail: Department of Invertebrate Zoology, Smithsonian National Museum of Natural History, MRC-163 P.O. Box 37012, Washington, D.C. 20013-7012 USA

Courier Address: Smithsonian Institution, MR 0163, Natural History, West Loading Dock, 10th and Constitution Ave NW, Washington, D.C. 20560

OsbornK@si.edu

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Smithsonian Two Fishes BenthicInverts

Postdoctoral Researcher Position: Zoologist (Postdoctoral Research Fellowship) - Fishes

One vacancy in the Department of Vertebrate Zoology at the Smithsonian National Museum of Natural History (NMNH) in Washington, DC:

Application Deadline: November 24, 2023

Location: Washington, DC

Compensation: $78,592 - $83,830 / year

Workplace type: Hybrid

Please see advertisement for more details: https://trustcareers.si.edu/en/postings/9ca946f9-4e3b-423d-afb5-b23f148487e1 ——

Postdoctoral Researcher Position: Zoologist and/or Biologist (Postdoctoral Fellow) - Benthic Invertebrates

One vacancy at the Smithsonian Marine Station at Fort Pierce, Florida.

Application Deadline: November 27, 2023

Location: Fort Pierce, FL

Compensation: $73,639 - $78,547 / year

Workplace type: Hybrid

Please see advertisement for more details: https://trustcareers.si.edu/postings/343e49c5-cc88-419a-800c-ec3760d4305f Katie Murphy <kmurphy425@gmail.com>

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Stockholm ProbabilisticML EvolutionBiodiv

Postdoctoral researcher in probabilistic machine learning for evolution and biodiversity

The Ronquist lab (https://ronquistlab.github.io) at the Department of Bioinformatics and Genetics, Swedish Museum of Natural History, Stockholm, is looking to hire a postdoctoral researcher in probabilistic programming and probabilistic machine learning for problems in evolution and biodiversity. The lab has a long track record of developing advanced statistical analysis software for phylogenetics, evolution and biodiversity research.

Tasks. You will work within a highly collaborative, interdisciplinary team aiming to develop the next generation of tools for probabilistic inference in evolution and biodiversity. The work is funded by the Swedish Research Council, the Knut and Alice Wallenberg Foundation, and the Swedish Foundation for Strategic Research, among others. The team includes computational biologists, computer scientists and evolutionary biologists at KTH Royal Institute of Technology, BI Norwegian Business School, Universitï¿½ Claude Bernard Lyon 1 and the Swedish Museum of Natural History. The general goal is to separate model specification from the implementation of the inference machinery through universal probabilistic programming (see https://www.nature.com/articles/s42003-021-01753-7). This paves the way for the development of probabilistic machine learning, which extends partially specified models through the application of generative methods to large datasets. The team is in the process of releasing the first version of the TreePPL platform (https://treeppl.org), which represents an important first step in this direction. The successful candidate will work with evolutionary biologists and biodiversity researchers in developing and implementing probabilistic models in TreePPL that address challenging scientific problems in areas such as host-parasite evolution, diversification, online tree inference or species circumscription. In particular, we expect the candidate to extend the TreePPL inference machinery to support efficient inference for these models, using novel inference strategies or novel combinations of current techniques like Markov chain Monte Carlo, sequential Monte Carlo, and parallel tempering. We also expect the candidate to extend the framework with generative machine learning capabilities. The work will involve documentation of the platform, teaching at user workshops, and other outreach activities. The project runs until 2026-12-31, and if successful, can be extended further.

Qualifications. We are looking for a candidate with a PhD in a relevant field, such as computational biology, computer science or statistics. Experience of postdoctoral research would be advantageous. We expect you to have a solid background in and experience of advanced modeling and statistical analysis, including the design or development of new models or inference techniques. We also expect some previous exposure to probabilistic programming and machine learning algorithms. Experience with modeling and analysis of relevant problems, such as inference of phylogeny from genetic data or analysis of environmental DNA data, would be advantageous. Similarly, previous experience with machine learning would be an asset. The work requires excellent skills in written and oral communication in English. We are looking for a candidate with strong analytical and communicative skills, and who is results-oriented.

For more information contact Professor Fredrik Ronquist (fredrik.ronquist@nrm.se) or Dr Emma Granqvist (emma.granqvist@nrm.se).

Application deadline: December 3.

Official ad: https://www.nrm.se/ommuseet/jobbahososs/ledigatjanster.9005019.html Apply here: https://recruit.visma.com/spa/public/apply?guidAssignment=682aeb92-2281-47f7-8af2-985ec9ac694c Fredrik Ronquist <Fredrik.Ronquist@nrm.se>

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TrentU HakaiInst PhD PDF AncientDNAofWolves

Post-Doctoral Fellow & PhD in Ancient DNA of Eastern Wolves

Dr. Paul Wilson (Trent University) and Dr. Linda Rutledge (Hakai Institute) are recruiting a full-time 2-year Post-doctoral Fellow (PDF) and PhD student in support of ancient DNA analyses to understand the evolutionary origins of eastern wolves. Funded through an NSERC

Alliance grant entitled ???Elucidating the origins of eastern wolves through ancient DNA???, this collaborative project involves the Tula Foundation; Environment & Climate Change Canada (ECCC); the Ontario Ministry of Natural Resources & Forestry (OMNRF); and Canadian Nuclear Laboratories Limited.

The PDF and PhD positions will be based out of the Trent University, Peterborough, Ontario and/or Hakai Institute, Quadra Island, BC.

Education & Experience: The PDF position requires a minimum of a PhD, and the PhD requires a minimum of an MSc. Candidates should demonstrate experience in 1) ancient DNA laboratory protocols supporting DNA extraction, PCR amplification, library preparation and next generation sequencing; and/or 2) DNA conservation genetic and genomic research with a speciality in bioinformatics and computational biology. The successful candidate must further demonstrate strong writing and presentation skills as evident by proposal writing, reporting, peer-reviewed publications and conference attendance.

To apply send a cover letter and CV to Dr. Paul Wilson (pawilson@trentu.ca) no later than the December 20th, 2023 at 5:00 p.m. Please note your full name and the position title in the subject line of your email (i.e. First and Last Name ??? Position Title).

Bridget Redquest <bridgetredquest@trentu.ca>

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UArizona EvolutionDataScience

POSTDOCTORAL RESEARCHER

University of Arizona

The Romï¿½n-Palacios Lab (https://-cromanpa94.github.io/cromanpa/) in the School of Information at the University of Arizona is seeking a postdoctoral researcher broadly interested in computational, evolutionary biology, and data science. The successful candidate will have the opportunity to work in several areas of ongoing research in the laboratory which may include but are not limited to:

1) Design and implementation of novel machine learning approaches for phylogenetic inference

2) Develop new methods and tools for reproducible phylogenetics

3) Use synthetic datasets to examine the association between recent climate change and biodiversity loss

4) Hypothesis testing using diversification models and phylogenetic comparative methods across the tree of life

Required qualifications: - PhD in relevant field (Ecology, Evolution, Genetics, Bioinformatics, Computer Science etc.).

Desired qualifications: - Coding experience with Python and/or R programming languages - Experience with High Performance Computing - Familiarity with common phylogenetics pipelines and workflows - Enthusiasm for phylogenetics/phylogenomics, bioinformatics and computational biology.

Those interested should email Cristian Romï¿½n-Palacios (cromanpa94@arizona.edu) a description of their relevant research experience and include their CV as an attachment.

At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, solving complex problems, and creating an inclusive academic community. As an Hispanic-serving institution, we translate these values into action by seeking individuals who have experience and expertise working with diverse students, colleagues, and constituencies. Because we seek a workforce with a wide range of perspectives and experiences, we provide equal employment opportunities to applicants and employees without regard to race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information.

Cristian Romï¿½n-Palacios Assistant Professor School of Information University of Arizona Phone: 520-621-5219

“Roman Palacios, Cristian - (cromanpa94)” <cromanpa94@arizona.edu>

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UBasel PopulationConservationGenomics

Subject: Postdoc fellowship in Population/Conservation Genomics 100% / 1 February 2024 or negotiable

The group of Plant Ecology and Evolution, Department

of Environmental Sciences at the University of Basel, Switzerland https://duw.unibas.ch/en/ecoevo/, is looking for a postdoc to lead the analyses of population genomics data sets in the fields of Plant Evolutionary Genetics and Conservation Genetics.

Your position Our new research projects generally focus on (a) genomic signatures of climate adaptation, (b) signatures of genetic drift, including mutational load, and (c) conservation genomics. Our group has recently (long-read-) sequenced the genomes of individuals of many populations of North American Arabidopsis, and of a handful of Brassicaceae species differing in elevational distribution in the Swiss Alps. Furthermore, we attempt to study the population genetics of threatened plants of calcareous grasslands.

Your profile The fellowship is for applicants who have done a PhD or at least one postdoc in Population Genetics / Genomics and/or Conservation Genetics.

We offer you The initial appointment is for one year; based on performance, the fellowship is renewable for up to four years. The University of Basel has generous resources for genomic analysis (scientific high- performance computing, data management, training and support). Furthermore, our Department of Environmental Sciences offers a stimulating environment, including a rich spectrum of research activities in life sciences (ecological genomics, population genomics, evolutionary biology, plant ecology, physiology and molecular and cell biology). Finally, Basel is a midsized Swiss city, well connected and offering a broad range of cultural and recreational activities.

Application / Contact Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) their CV, (3) copies of PhD and other relevant diploma transcripts, and (4) contact information of two references. We accept only online applications. Applications are welcome until the position is filled and will be reviewed starting December 15, 2023. For more information, contact Prof. Dr. Yvonne Willi (yvonne.willi@unibas.ch).

https://jobs.unibas.ch/offene-stellen/postdoc-fellowship-in-population-conservation-genomics/-692b7ce6-0f4c-456e-b5c5-617b60f64980 www.unibas.ch
Yvonne Willi <yvonne.willi@unibas.ch>

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UBrest France MarineFishesPopGenomics

Population genomics of pollack and red mullet in NE Atlantic, using low coverage Whole-Genome Sequencing

A 25 months Post-Doc is proposed at the University of Brest, UBO (LEMAR laboratory) to perform a population genomics study of two fish species of high commercial interest in European fisheries, the pollack, Pollachius pollachius, and red mullet, Mullus surmuletus, in the North-East (NE) Atlantic. A particular attention will be paid to the population structure in the Bay of Biscay and adjacent waters. This project is based on a collaboration between UBO, the National Museum of Natural History (MNHN), Ifremer, and professional fishers.

Background and scientific context: The development of relevant fisheries management plans relies on the accurate assessment of stock boundaries. In the Bay of Biscay, the management of a certain number of exploited species, known as 'Data Poor Species', is largely hampered by a significant lack of knowledge concerning their biology and ecology, notably concerning their population structure. This is particularly the case for the pollack, P. pollachius, and the red mullet, M. surmuletus. In this context, a population genomics study will be conducted to explore the spatio-temporal structure of pollack and red mullet populations in the Bay of Biscay and surrounding waters. With this aim, a lcWGS (low-coverage Whole-Genome Sequencing) will be conducted on both species, which is a powerful and cost-effective approach for empirical population genomics. This strategy captures a broader range of genetic variation across the entire genome (from common genetic variants such as— SNPs to structural variants such as chromosomal inversions or copy number variants), offering a more comprehensive view of genetic variation at population-scale. These investigations will be compared to previous data obtained by a Pool-Seq approach. Up to 1000 individual pollack samples and 1000 red mullet samples collected from Portugal to northern Scotland will be sequenced. These samples include temporal sample collections that cover a period up to 10 years. Additional samples collected in 2023 will be added to the dataset.

Detailed post-Doc project: The Post-Doc will be in charge of conducting the preparation of lcWGS libraries and all analysis downstream to sequencing at LEMAR laboratory (DNA samples have already been extracted

and preparatory work for lcWGS has been conducted). Sequencing will be conducted on external platforms. Bioinformatic analysis will be conducted using a calculation cluster located at Ifremer (Datarmor). This genomic study will aim at addressing two issues: ——— 1. Firstly, the population genetic structure of pollack and red mullet will be investigated over the distribution range of both species from Portugal to northern Scotland. The goal of this first task will be to assess the level of evolutionary divergence among the populations of both species in their Atlantic distribution area. ——— 2. Secondly, genomic data will be applied to assess connectivity patterns in the Bay of Biscay and surrounding waters. A particular effort will be conducted to apply genomic data to management issues in the Bay of Biscay.

Profile of the candidate: The candidate must have a strong background in population genomics and bioinformatics. A demonstrated aptitude to conduct WGS data analyses will be an important plus. A significant experience in DNA sequencing library preparation will be appreciated. In addition, the post-doc is expected to be particularly interested into the application of population genomics data in fisheries management, since he/she will have to regularly interact with fishermen and fisheries managers.

Working place: The post-doc will be hosted at Laboratory of Environmental Marine Sciences (LEMAR). This laboratory is located in the European Institute for Marine Studies (IUEM), which is a pluridiscisplinary institute dedicated to the field of marine and coastal sciences. The IUEM is located in Plouzané, about 8km away from the center of Brest. The LEMAR is an interdisciplinary laboratory that gathers a total of ca. 150 researchers and technicians and 50 PhD students. The LEMAR includes a molecular ecology team, with all the necessary equipment to conduct most of the labwork (DNA extraction, PCR amplification, etc..) and construct DNA libraries. Both French and English are used as spoken languages in the laboratory.

Salary: The salary is 2 013,98 euro /month net and 47 days-off/year.

Application: This will include 1/ a cover letter presenting the research interests and relevant experience of the applicant (max. 2 pages), 2/ a curriculum vitae including the list of publications, 3/ copies of academic diplomas, and 4/ the names and e-mail addresses of two referees. Applications should be sent as a single pdf to gregory.charrier@univ-brest.fr. The deadline for application is extended

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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

UCalifornia Berkeley HumanEvolGenetics

Post-doctoral position - University of California, Berkeley - Human Evolutionary Genetics.

Description: The Moorjani Lab (https://moorjanilab.org/) at University of California, Berkeley uses computational and statistical methods to investigate questions in human evolutionary genetics, in particular on mutation rate, demographic inference and archaic ancestry. A central aim in the lab is to understand the impact of evolutionary history on genetic variation and to apply this knowledge to learn about human history and disease. To this end, we use genetic data from ancient specimens and present-day species to learn about: (1) when key events (such as introgression and adaptations) occurred in human history, (2) how different evolutionary processes such as mutation rate evolve across primates, and (3) how we can leverage these patterns to identify genetic variants related to human adaptation and disease. The research in the lab involves both development of new methods and large-scale genomic data analysis.

Responsibilities: A successful candidate will develop and apply computational approaches to large genomic datasets to characterize patterns of population history and evolution. The main responsibilities include conducting research, attending regular lab meetings and journal clubs, and preparing research results for publication and presentations at scientific meetings. Opportunities may also exist for mentoring graduate and undergraduate students.

Required qualifications: Ph.D. or equivalent in genetics, genomics, computational biology or related fields and demonstrated record of productivity and publications. Experience with programming (e.g. C/C++, Python/Perl, R or other programming languages), genomic data analysis and methods development.

Please contact Priya with your CV and a brief overview of research questions you are interested in pursuing. Please also request three recommenders to send a letter of reference on your behalf. The position is open until filled with an anticipated start date in Spring 2020.

Salary: This is a multi-year postdoctoral position (initial

appointment is for 12 months and renewable annually up to three more years). Salary is commensurate with qualifications and experience.

Contact: Priya Moorjani Assistant Professor Department of Molecular and Cell Biology Center for Computational Biology https://moorjanilab.org/ Email: moorjani@berkeley.edu

Priya G Moorjani <moorjani@berkeley.edu>

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UCalifornia Irvine GeneticsComplexTraits

Post-doctoral fellow in the Genetics of Complex Traits

We have several projects related to the Genetics of Complex Traits. A common theme in the lab is the use of multiparent populations to dissect complex traits. We are exploiting these multiparent populations in experimental evolution studies in yeast, extreme QTL mapping in Drosophila, and in experiments to unravel pathogen reservoir competency in Peromyscus mice.

Some representative publications are here:

https://pubmed.ncbi.nlm.nih.gov/25175100/ https://pubmed.ncbi.nlm.nih.gov/36366952/ https://pubmed.ncbi.nlm.nih.gov/35100395/ https://pubmed.ncbi.nlm.nih.gov/35143664/ Applicants with training in population genetics, quantitative genetics, and/or statistical genetics are especially encouraged to apply. Project will involve large datasets and bioinformatics, especially in R. Excellent written and oral communication skills and the ability to author manuscripts are further important skills. The position is best suited to someone who wishes to expand their expertise and establish independence at the interface of data/computational science and genetics.

U.C. Irvine is one of the ten best public universities in the U.S. We have an excellent and interactive group in evolutionary genetics. UCI is located in Orange County California. UCI is located a short distance from white sand beaches and Orange County is one of the most ethnically and culturally diverse areas in the world.

The position has a flexible start-date and is available for an initial period of two years, with a possibility for extension subject to a satisfactory performance.

To apply go to the following recruitment URL and upload the information below: https://recruit.ap.uci.edu/JPF08730 * curriculum vitae, including a full list of publications and pre-prints

* a short (one-page maximum) statement describing past research experience, why you want to join us, future research interests, and you as a person.

* contact information for three references

Please contact Tony Long (tdlong@uci.edu) with any questions. Informal inquiries are welcome and encouraged! It is best to let me know you plan to officially apply.

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

tdlong@uci.edu

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UCalifornia SanDiego InsectEvoDevo

Postdoc position at UC San Diego in Insect Eco-Evo-Devo

The newly established lab of Dr. Patrick Rohner in the Department of Ecology, Behavior, and Evolution (EBE) at the University of California San Diego (UCSD) is looking for 1-2 postdoctoral researchers to join the lab.

Research in the Rohner lab integrates concepts and approaches from evolutionary developmental biology (evo-devo), evolutionary ecology, and quantitative genetics to address fundamental questions surrounding the role of developmental plasticity in ecology and evolution. Focusing on dung beetles and black scavenger flies, we are especially interested in how plasticity, developmental bias, and host-symbiont interactions shape phenotypes and their evolution. To this end, we integrate a variety of methods, including transcriptomics, functional genetics, geometric morphometrics, as well as quantitative genetics and comparative phylogenetic approaches. For more information, see the lab website

at https://rohnerlab.biosci.ucsd.edu/ . Responsibilities:

Designing and conducting research on dung beetles and/or dung flies within the broad interests of the lab. Potential candidates with experience in geometric morphometrics or the study of developmental plasticity and its evolution are especially encouraged to apply.

Compensation:

Postdocs will be hired for an initial 2 years with the possibility of extension. Annual salary ranges between $64,480 and $77,327 (depending on postdoctoral experience). Information on benefits can be found here: https://postdoc.ucsd.edu/postdocs/-benefits-services.html Qualifications:

- A Ph.D. in Evolutionary Biology, Ecology, Developmental Biology, or a related field.

- Proficiency in statistical analysis using R

- Excellent communication skills, both written and oral, for effective collaboration and dissemination of research findings.

- Demonstrated track record of scientific productivity, evidenced by peer- reviewed publications.

- Ability to work independently while contributing effectively to a research team.

How to apply:

Interested candidates are encouraged to contact Dr. Rohner. Please include: (i) a CV, (ii) contact information for two referees who can provide reference letters upon request, and (iii) a brief motivation letter describing your background and motivation to apply for the position. Please email your application materials as a single PDF file to prohner@ucsd.edu.

Patrick Rohner, PhD(he/him) Assistant Professor UC San Diego, Department of Ecology, Behavior and Evolution Bonner Hall 3430 9500 Gilman Dr., La Jolla, CA 92093 https://rohnerlab.biosci.ucsd.edu/ office: +1 (858) 246-3450

“Rohner, Patrick” <prohner@UCSD.EDU>

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UCalifornia SanDiego SticklebackGenomics

Postdoctoral Researcher University of California San Diego Evolutionary Genomics

Position

The Rennison Lab at the University of California San Diego is seeking to hire a Postdoctoral Researcher. The position is part of a five-year NIH funded grant. The researcher will generate and analyze genomic data to address evolutionary and ecological questions regarding genetic sources of evolutionary constraint in threespine stickleback. The precise projects are open to development in their approach and focus. Possible topics include: the role of standing genetic variation in the rate of adaptation and degree of observed parallelism or the contributions of epistasis and pleiotropy to parallel genetic evolution.

The position requires a Ph.D. degree in biology, evolutionary biology, bioinformatics, genomics, or a related field. Familiarity with R and Unix and experience using PERL or Python is essential.

This is a fixed-term appointment for two years from date of hire, with possibility of renewal for up to five years, it is fully funded. Start date is negotiable. Review of applications will begin immediately and continue until the position is filled.

Lab Group(https://rennisonlab.com/). The Rennison Lab has been at UCSD since Fall 2019. The lab currently has one postdoc and twoPhD students who are interested in a variety of eco-evolutionary topics.

We are housed within the School of Biological Sciences at UCSD (https://biology.ucsd.edu/research/academic-sections/index.html). This is a large, diverse, and collaborative school with many groups sharing interests in eco-evolutionary feedbacks, population genomics, and evo-devo topics.

Application Interested applicants should submit the following to Diana Rennison (drennison@ucsd.edu): 1) cover letter describing their research interests 2) current CV with contact information for at least two references.

Diana J. Rennison PhD Assistant Professor, Ecology, Behavior & Evolution Section Division of Biological Sciences University of California San Diego Office: 2212 Muir Biology Building Office Phone 1-858-246-5412 Web-

site:rennisonlab.com

"Rennison, Diana" <drennison@mail.ucsd.edu>

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UChicago TheoreticalPopulationGenetics

Postdoctoral Scholar Position available in:

THEORETICAL POPULATION GENOMICS

A postdoctoral scholar position is available in the research group of Matthias Steinrücken in the Department of Ecology and Evolution at the University of Chicago. In the group, we are developing theoretical, computational and statistical methods for population genomics analysis. Potential projects will be in the context of NIH funded research on developing population genetic methods to detect population structure and adaptation using modern and ancient genomic datasets. Some specific projects include developing Coalescent Hidden Markov Models to infer population structure, as well as linkage-based approaches to characterize the genomic landscape of natural selection, but projects are flexible based on the scholar's interest.

The Department of Ecology and Evolution has a very collaborative and unique environment with expertise in theoretical and empirical approaches to questions in ecology and evolutionary genetics. Moreover, the University of Chicago provides ample opportunities for interactions with outstanding researchers in overlapping areas, particularly in the Departments of Statistics, Human Genetics, and Genetic Medicine.

Candidates should have a PhD in Statistics, Mathematics, Biology, Computer Science, or in a related field with substantial quantitative training. Research experience in population genetics is beneficial, but not required. The start date is negotiable, and the salary will be competitive and based on level of experience.

To apply, please send your application to steinrue@uchicago.edu. Your application should include a brief cover letter, a cv, a one-page description of past research and future interests, and contact information for three references. Applications will be considered on a rolling basis until the position is filled, but should be received by December 21, 2023 to ensure consideration. Candidates from diverse backgrounds are particularly encouraged to apply. Please see https://voices.uchicago.edu/steinrueckenlab/ to learn more about the group and send any questions regarding the position to steinrue@uchicago.edu.

Matthias Steinrücken, PhD

Assistant Professor Department of Ecology and Evolution University of Chicago https://voices.uchicago.edu/steinrueckenlab/ Equal Employment Opportunity Statement: All University departments and institutes are charged with building a faculty from a diversity of backgrounds and with diverse viewpoints; with cultivating an inclusive community that values freedom of expression; and with welcoming and supporting all their members.

We seek a diverse pool of applicants who wish to join an academic community that places the highest value on rigorous inquiry and encourages diverse perspectives, experiences, groups of individuals, and ideas to inform and stimulate intellectual challenge, engagement, and exchange. The University's Statements on Diversity are at https://provost.uchicago.edu/statements-diversity . The University of Chicago is an Affirmative Action/Equal Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, gender identity, national or ethnic origin, age, status as an individual with a disability, military or veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination (https://www.uchicago.edu/about/non_discrimination_statement/).

Job seekers in need of a reasonable accommodation to complete the application process should call 773-834-3988 or email equalopportunity@uchicago.edu with their request.

Matthias Steinrücken <steinrue@uchicago.edu>

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UCork SalmonGenomics

Going feral: the evolutionary ecology of reverse domestication in an iconic fish species.

We are looking for an ambitious and competent postdoctoral fellow to work on the evolutionary ecology of feralisation in Atlantic salmon (Salmo salar). The position is funded for 4 years (with a one-year probationary period) as part of Ireland's Marine Institute Post-Doctoral Fellowship Programme. The Fellow will join the research group of Dr Tom Reed at University College Cork and be embedded within a wider team of salmonid biologists and geneticists across the island of Ireland. This exciting new research project aims to tackle a series of fundamental questions concerning the genomic and epigenetic basis of "reverse domestication" processes, which occur when farmed salmon escape and establish potentially self-sustaining (or hybridising) populations in the wild. The topic is also highly relevant to applied conservation issues pertaining to aquaculture escapes and fisheries management. We are looking for someone with a background in, and passion for, molecular or conservation genetics, in particular with strong bioinformatics/quantitative skills (e.g., in the analysis of NGS data). The work will involve the analysis of archival biological material from past experiments, with scope for undertaking new experiments in the wild. Strong communication, writing and analysis skills, as well as excellent English, are key desired attributes.

The fellow will work at the University of Cork, one of Ireland's largest and most successful universities. The research will be conducted in the School of BEES which consists of 30+ faculty, ca. 20 postdocs and 50 PhD students across Zoology, Ecology, Plant Sciences and Geology. Cork is situated on the south coast of Ireland, 2.5 hours from Dublin, is served by an international airport, has a population of about 200,000, and is on the doorstep of some of the most beautiful coastline in Europe.

The project will involve collaborations with colleagues from the Marine Institute of Ireland and Queens University Belfast, and we also collaborate widely with groups from across Europe and the US.

Informal enquiries to: treed@ucc.ie

For more details and to apply formally for the position: Go to this website: http://ore.ucc.ie/ Search by reference number: 072553

Tom Reed Senior Lecturer in Zoology and Vice Head of School of BEES (University College Cork) Secretary of Irish Ecological Association treed@ucc.ie +353 21 4904661 http://research.ucc.ie/profiles/D026/treed T23 N73K.

Thomas Reed <treed@ucc.ie>

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UCork SalmonGenomicsFeralisation

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Thomas Reed <treed@ucc.ie>

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UDenver UMass DeerMouseBotflyInteractions

Postdoc in evolutionary ecology of host-parasite interactions at University of Denver and University of Massachusetts Amherst

Position Summary The Velotta Lab at the University of Denver (DU) and the Senner Lab at the University of Massachusetts Amherst (UMass) are looking for a postdoctoral research associate. The position will support a collaborative NSF-funded project, along with the Cheviron Lab at the University of Montana (UMT), studying the influence of parasitic botflies on the physiology, demography, and evolutionary biology of deer mice (Peromyscus maniculatus) in the Colorado Rockies in the context of climate change. The preferred candidate will have a PhD in Ecology and Evolutionary Biology, or a related field, and will have experience with fieldwork and/or small mammal trapping, as well as whole-animal respirometry, demographic analyses, or climate change modelling. The initial position will be for 9 months through DU, but funding is available for up to 3 additional years through UMass. The start date is negotiable between January 31, 2024-March 31, 2024.

Essential Functions The candidate will lead fieldwork in Kansas and Colorado along an elevational transect that includes five sites and spans from 300-4200 m of elevation. Fieldwork includes small mammal capture-mark-recapture, whole-animal respirometry, and blood and tissue collection. Fieldwork takes place in both prairie and high-altitude environments, which can include rugged, mountainous terrain. This work includes the handling of live, wild rodents. The candidate will lead or contribute to publications stemming from current project fieldwork, as well as past project data collection, which includes seven years of data from along the elevational transect. The candidate will work in a collaborative environment alongside graduate and undergraduate students at UMass, DU, and UMT.

Required Qualifications PhD in Ecology and Evolutionary Biology or related field prior to the start date. Demonstrated ability to conduct independent research. Commitment to fostering an inclusive work environment.

Preferred Qualifications Fieldwork experience with small mammals, especially in alpine habitats. Experience handling rodents or other small mammals. Strong quantitative skills. Experience with demographic analyses and/or species distribution models. Evidence of leadership, mentoring, and outreach.

See this link for full job advertisement and instructions on how to apply:

https://jobs.du.edu/en-us/job/496963/postdoctoral-research-associate For best consideration, please submit your application materials by 4:00 p.m. (MST) December 22, 2023

Questions can be directed at jonathan.velotta@du.edu, nsenner@umass.edu, and zac.cheviron@mso.umt.edu

Details - Postdoctoral Research Associate | University of Denver

Search for faculty, staff, and students at the University of Denver.

jobs.du.edu

Jonathan Velotta

Assistant Professor Department of Biological Sciences University of Denver 2101 E Wesley Ave Denver, CO 80210

Office: SGM 280

Twitter: @JonVelotta

velottalab.com he/him

Jonathan Velotta <Jonathan.Velotta@du.edu>

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UFreiburg TreeEvolutionaryEcol

The Department of Forest Genetics offers a position for a Postdoctoral Researcher

* Application deadline: 01.12.2023 * Start-date: At the earliest possible date. * Fulltime position * https://uni-freiburg.de/university/jobs/00003392/ Description

The working group of Forest Genetics at the University of Freiburg is looking for a postdoctoral researcher to work on the phenology of tropical tree species and, in general, on the evolutionary ecology of trees.

The successful applicant will be involved in the DFG-funded Emmy Noether project on "Phenology of tropical tree species - environmental cues, molecular mechanisms, and consequences for plant-animal interactions". The project focuses on identifying climatic cues that trigger phenological transitions in four neotropical tree species. We collect phenological data with a camera system and link this information to high-resolution climatic data. Moreover, we study how pollination and the resulting gene flow are influenced by the timing and degree of synchrony within tree populations. Data collection in Southern Ecuador at the Estación Científica San Francisco and in a dry forest site at Reserva Ecológica Arenillas takes place since 2022 until the end of 2024. We are now looking for a postdoctoral researcher who will work with the two Ph.D. students in the field and lab, co-supervise BSc and MSc students, and carry out his/her own investigations in the framework of this project, specifically concerning plant-animal interactions. Also, we are currently establishing a Citizen Science project on the phenology of tropical species in Ecuador which should be coordinated together with our Ecuadorian partner institutions.

Further, the postdoctoral researcher will support the working group in research, teaching, and administrative tasks. The position comes with a teaching load of 4 semester hours. Courses should preferentially be taught in German.

Your profile

You have an MSc in biology, ecology, environmental science, or similar fields and completed a university degree (Ph.D.) with excellent results. Ideally, you have already gained experience in a postdoctoral position. You have prior experience with fieldwork in the neotropics and can communicate with local field workers, NGOs, and authorities in Spanish. Ideally, you have prior experience with research projects with tree ecology, phenology, plant-animal interactions (e.g. network analysis), or population genetics. Prior experience with laboratory work is advantageous. You have good communication and team skills, and a meticulous way of working.

The ability to work in a team and under physically and mentally demanding conditions of field research in a tropical rainforest is crucial. Experience in tree climbing would be beneficial.

Further, we expect good knowledge in data handling and statistical data analysis (preferable in R) as well as the capability to interpret the results and excellent writing skills which should be proven by own scientific publications. Previous teaching experience is beneficial. Since courses at the bachelor level are taught in German, fluency in German is a significant advantage.

What we offer

You will be integrated into a newly established working group at the University of Freiburg working on forest genetics and genomics in temperate and tropical regions. You will have the chance to carry out fieldwork in the Neotropical mountain regions of Ecuador and to work with us on the data collected in the project.

The position offers the possibility of scientific qualification. The salary is the standard salary for postdoctoral positions in Germany including social security and health insurance.

Your application

Your application will consist of a motivation letter, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references.

The position is limited to three years. The salary will be determined in accordance with E13 TV-L.

We are particularly pleased to receive applications from women for the position advertised here.

Application

Please send your application in English including supporting documents mentioned above citing the reference number 00003392, by 01.12.2023 at the latest. Please send your application to the following address in electronic form to jessica.sun@forgen.uni-freiburg.de (Please submit your application as a single pdf document.)

For further information, please contact Prof. Dr. Katrin Heer on the phone number+49 761 203-3647 or E-Mail katrin.heer@forgen.uni-freiburg.de.

Full job announcement: https://uni-freiburg.de/-university/jobs/00003392/ Prof. Dr. Katrin Heer

Forest Genetics

Eva Mayr-Stihl Stiftungsprofessur für Forstgenetik Albert-Ludwigs-Universität Freiburg

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UGdansk Poland Three CanineEvolution

Postdoctoral position in canine evolutionary genomics A postdoctoral position in canine evolutionary genomics is now open in a research group led by Dr Małgorzata Pilot at the University of GdaÅsk, Poland. The research group studies microevolutionary processes in mammalian populations using genetic and ecological approaches. We look for a postdoctoral researcher with experience in evolutionary genomics to join a project focused on testing the Domestication Syndrome hypothesis in free-ranging domestic dogs. The project is co-funded and led jointly by Dr Małgorzata Pilot from the University of GdaÅsk and Dr Sarah Marshall-Pescini from the Domestication Lab at the University of Veterinary Medicine in Vienna (https://domesticationlab.wordpress.com/the-essentials-of-our-lab/team-2/). The position is available for 24 months, from March 2024.

Work description The project will focus on genomic analyses of free-ranging dogs from the Domestication Lab field site in Morocco. This position will involve laboratory work to prepare DNA for the genotyping on SNP arrays and Next Generation Sequencing (including DNA extraction and quantification, and preparation of NGS libraries) and the analysis of the obtained genomic data alongside the phenotypic data in order to reconstruct heritability of phenotypic traits. The work will also involve the management of data generated during the project implementation and participation in the supervision of PhD and MSc students in the group. The work will require learning new methods of data analysis, and therefore strong self-motivation and willingness to learn is essential. The successful candidate will be expected to contribute to grant applications submitted by the group, and will be given opportunity to apply for independent funding available for early career researchers. The successful applicant will be responsible for preparing peer-reviewed publications as the first author, will also participate in the preparation of publications as a co-author and in the preparation of reports on the project implementation, and disseminate the project results by participating in scientific conferences and through the media. The project does not involve fiedwork, but the successful candidate will have an opportunity to visit the project's field site near Agadir, Morocco. The research groups in GdaÅsk and Vienna work on this project in close collaboration and arrange exchange visits of staff and students.

Requirements

The candidates for this position must hold a PhD degree in biological sciences or a related discipline, and have experience in evolutionary genomics as well as willingness to learn new methods. The applicants should have no more than 7 years of postdoctoral experience at the expected start time of the employment (March 2024); maternity leaves and career breaks associated with health problems are not included in this 7-year period. Candidates who do not hold a PhD degree yet, but have an established date of the PhD thesis defence/viva can be also considered. However, holding a PhD will be required at the time of the job commencement.

We look for candidates with the following skills:

1) experience with laboratory methods used in experimental population genetics and genomics;

2) experience with sample processing for NGS;

3) experience with SNP data analysis;

4) good theoretical knowledge of population genetics;

5) experience with methods of population genetic data analysis;

6) experience with preparing research work for publication, evidenced by a first authorship of at least one research paper;

7) excellent spoken and written English.

In addition, skills in one or more of the areas below are desirable:

1) analysis of mammalian genomes;

2) functional genomics;

3) behavioural genetics;

4) stable isotope analysis.

Research environment The University of GdanÌsk offers education to over 25 thousand students and carries out research in most fields of academic knowledge. The University is highly committed to gender equality and

has achieved fourth position globally in the CWTS Leiden Ranking 2019, which measures the participation of women in scientific publications at universities. The University is a member of a consortium of European University of the Seas - SEA-EU, which is intended as a first step towards establishing an international, multilingual European University. The participating universities include University of Cadiz (Spain), University of Brest (France), University of Kiel (Germany), University of Split (Croatia) and University of Malta.

The research group (https://-evolutionarygenomicsgroup.weebly.com) is based at the Faculty of Biology, and is part of the Department of

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UGlasgow PDF PhD ParasiteEvolution

1) Graduate Position: UniversityofGlasgow,UKParasiteEvolution

https://www.gla.ac.uk/postgraduate/-doctoraltraining/northwestbio/-projects/pathogens/ashape-shiftingsilentassassinhowdoesgenomeinstabilityunderpintrypanosomacruzidrugresistanceandsurvivalinvectorandhost/-

Chagas disease is the most important parasitic in Latin America, killing 12,000 people every year.Genome sequencing of agent, parasite Trypanosoma cruzi, reveals a genome in a constant state of re-arrangement. The adaptive value of such genomic re-arrangements and evolutionary consequences of this shape-shifting may hold the key to understanding, and addressing, many intractable aspects of T. cruzi biology.

In this PhD program the student will leverage advances in genomics, genetic manipulation, animal disease models to understand how T. cruzi genomic re-arrangements may underpin long term survival and evolution in the mammalian host as well as parasite resistance to front-line and next generation drugs. An expert and experienced supervisory team is in place to support the PhD, with opportunities for research and training in Ecuador, Uruguay and Belgium.

APPLICATION DEADLINE: Friday9th February 2024

Supervisors: Martin Llewellyn Jamie Costales Richard McCulloch Panas Kotsantis Mick Urbanick

Martin.llewellyn@glasgow.ac.uk

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2) Post-doc Job position:UniversityofGlasgow,UKParasiteEvolution

We have an exciting opportunity for a Research Associate to make leading contribution to a UK Medical Research Council projectExploring the adaptive role of genomic instability in Trypanosoma cruziworking with Profs Martin Llewellyn, Jamie Costales, Richard McCulloch, JC Dujardon, Gosia Domagalska, Carlos Robello and Thomas Otto.

Trypanosoma cruzi, which cases Chagas disease and infects c.7 million people in Latin America is the most important parasitic disease in the region in terms of deaths and morbidity. However, we know very little about its biology and evolution, especially how it avoids host immunity to establish life-long infections in its mammalian host. The candidate will join a consortium of researchers in Ecuador, Uruguay, Antwerp (Belgium) and the UK to study this most neglected of neglected tropical diseases.

The successful candidate will study genomic instability in T. cruzi in vitro and in vivo (animal models, insect vectors and a cohort of clinical cases). The candidate will undertake genetic modification of the parasite to understand mechanisms of genome instability and accelerated evolution, as well as to undertake single cell sequencing experiments and whole genome sequencing analysis of parasites from different hosts and vectors.

Project partners are world leaders in parasite genomics, single cell biology and Trypanosoma cruzi biology. The candidate will join an exciting, friendly and experienced research team to drive forward our understanding of this fascinating but neglected parasite.

The post will involve a mix of dry and wet-lab work with opportunities for secondment across Europe and Latin America.

This post is full time and has funding available for up to 36 months.

Informal enquiries may be directed to Professor Martin LlewellynMartin.Llewellyn@glasgow.ac.uk.

Closing Date:11th January 2024

SBOHVM, University of Glasgow

Room 207, Graham Kerr Building, G128QQ

Tel 0044 1413305571 Mob 0044 7968587547 https:/-/www.llewellynlab.com www.salmosim.co.uk Martin

Llewellyn <Martin.Llewellyn@glasgow.ac.uk>

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

UGraz Austria AmphipodDiversity

Postdoc:UGraz_Austria.AmphipodDiversity

We are looking for a postdoc interested in freshwater biodiversity research to work on a project investigating the taxonomic and genetic diversity of epigean amphipods in the eastern Alpine region (focus on Austria). The position is fully funded for 20 months. The project builds on an existing body of data, and further lab work will be assisted by a technical assistant. The position requires a strong background in population genetics and phylogeography, ideally with research experience in freshwater ecosystems. Skills in GIS-based data analysis and visualization, species distribution modeling and NGS-based genotyping, as well as familiarity with amphipod or macrozoobenthos biology would be welcome assets. Ability to read German text will be helpful for researching some of the literature on species distributions, but is not a must.

The project will be carried out at the Institute of Biology at the University of Graz, Austria, in the group of Prof. Kristina Sefc (https://homepage.uni-graz.at/en/kristina.sefc/). Graz is a beautiful mid-sized city in the south-east of Austria, located in convenient distance to the high Alps and the Adriatic Sea and with lots of possibilities for outdoor and cultural activities right at the spot.

To apply, please email a cover letter, summarizing your relevant experience, and your CV (including a list of publications) to kristina.sefc@uni-graz.at. Applications are welcome from now on until December 15, 2023. The starting date for the position is between January 1st and March 1st, 2024. Gross salary (before tax) is approx. 4,600 euro per month.

If you have any questions or would like to have more information about the project, please contact me (kristina.sefc@uni-graz.at).

Best regards, Kristina Sefc

"Sefc, Kristina (kristina.sefc@uni-graz.at)" <kristina.sefc@uni-graz.at>

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ULausanne SexualSelectionDrosophila

Postdoctoral position in sexual selection and conflict in Drosophila

A short-term position of postdoctoral researcher ("premier-e assistant-e") is available in Tadeusz Kawecki's research group at the Department of Ecology and Evolution, University of Lausanne, Switzerland (https://www.unil.ch/dee/kawecki-group). We are looking for a qualified researcher interested in experimental approaches to study sexual selection and conflict in the context of adaptation to undernutrition and/or pathogen resistance. Candidates should have a strong interest in experimental evolutionary biology, solid understanding of statistics and experimental design, aptitude for laboratory research, and demonstrated scientific writing skills. Experience with experimental work with Drosophila or other insects would be a strong advantage.

Potential projects include the study of consequences of pathogen infection and male resistance on male attractiveness, genic capture of variants improving resistance by sexual selection and the study of consequences of adaptation to undernutrition for sexual conflict. In addition to this personal research (70%), the position also includes 25 % teaching activities (including master student supervision) and 5 % service for the research group and larger community (e.g., helping other group members, equipment maintenance, institutional tasks).

No pre-existing knowledge of French is required (research-related discussions, seminars etc. and a part of teaching are in English) but learning basic French would make living in Lausanne more enjoyable.

The position is available at 100% activity for 1 year, starting February-March (possibly April) 2023, with a gross salary: CHF 81,120 per year.

With 18 research groups and nearly 100 postdocs and PhD students from over 30 nationalities, the Department of Ecology and Evolution is a diverse and dynamic academic environment. It shares the campus and multiple collaborations with several other departments, including Computational Biology, Fundamental Microbiology and Integrative Genomics, and there are many inter-departmental interactions and activities. Lausanne is a medium-sized city on the shores of Lake Geneva, surrounded by a wine growing region recognized as a

UNESCO World Heritage Site, and within one hour of the Alps. It offers a great variety of cultural, recreational and outdoor opportunities.

For further information please contact Tadeusz Kawecki <tadeusz.kawecki@unil.ch> .

Applications must be submitted through the UNIL application portal https://bit.ly/3FVPVPb (once there, you can change to the English version in top right corner). They should include: - a cover letter detailing your research interests and motivation for applying for this position; - your CV; - a summary of your past research (1-2 pages, could focus on what you consider your most exciting contributions); - the names and email addresses of 2-3 references. - your PhD certificate (if you haven't yet finished your PhD indicate the scheduled or expected date; you will have to provide the certificate before the start of the contract).

To receive full consideration, apply before 4 December 2023.

UNIL is committed to promoting gender equality and strongly encourages applications from female candidates. www.unil.ch/egalite UNIL supports early career researchers https://www.unil.ch/graduatecampus/en/home.html Tadeusz Kawecki <tadeusz.kawecki@unil.ch>

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ULeicester EvolutionaryGenomics

A funded postdoctoral position is immediately available to join Dr Roberto Feuda's lab within the Department of Genetics and Genome Biology at the University of Leicester. You will work on a project funded by the Human Frontier Science Program to understand the evolution of protein multifunctionality.

You will analyse the "natural variation" selective pressures acting on opsin genes of Drosophila melanogaster populations and identify sites that underlie the multifunctionality. The functional role of this variation will be tested experimentally by collaborators in Germany (Martin Gï¿½pfert), the United States (Anant Menon), and Canada (Belinda Chang).

The Feuda lab, composed of 8 members (and two cats as mascots), combines experimental and computational biology in different model systems to investigate different aspects of nervous system evolution, from genes to developmental gene regulatory networks and cell types.

Furthermore, you will be part of the Neurogenetics Group at the University of Leicester, composed of 8 PIs, 10 PDRAs and 20 PhD students. With research in evolutionary genomics (Feuda and Hammond, and Mallon labs), neurogenetics (Kyriacou, Rosato, and Chen labs), auditory physiology (Warren lab), and neurodegeneration (Giorgini lab). Expect active participation in group meetings and social activities to facilitate networking and independent collaborations. Other opportunities in science career development, including leadership, teaching opportunities, as well as grant and manuscript preparation, will also be part of the role.

The initial contract is for one year, with the possibility of extending it for a total of three years, contingent upon your satisfactory performance.

About you

So, if you are highly motivated, creative, and passionate and hold (or are about to submit) a PhD in population genetics, molecular evolution, genomics, or a related field and possess a strong record of research excellence, you're the ideal candidate we're seeking. In addition, you should be interested in developing the project further through independent fellowship applications (e.g., EMBO and Marie Curie).

Interested candidates should apply with a cv, a brief cover letter using this link https://jobs.le.ac.uk/vacancies/8845/research-associate.html. For informal request please contact Dr Roberto Feuda rf190@leicester.ac.uk

I sometimes send email outside working hours. I do not expect others to do the same.

Dr. Roberto Feuda Associate Professor and Royal Society University Research Fellow Department of Genetics and Genome Biology University of Leicester Adrian Building (Room 127) University of Leicester University Road, Leicester LE19HN, UK Tel: (+44) 01162523428

"Feuda, Roberto (Dr.)" <rf190@leicester.ac.uk>

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UManchester BacterialEvolution

A postdoctoral position is available in the group of Mato Lagator at the University of Manchester, UK. Initial appointment is for 2 years.

About the project: One of the biggest outstanding problems in biology is how we can predict evolution. This interdisciplinary project will combine the tools and techniques of molecular and synthetic biology with biophysics to study how the existing molecular mechanisms in bacterial cells determine evolution. Understanding this relationship will allow us to predict the effects of mutations, and hence improve our ability to predict evolution.

This is particularly important when it comes to understanding and predicting the evolution of antibiotic resistance - one of the most important examples of how evolution affects human lives today, already causing over 50,000 deaths per year in the EU alone, in addition to dramatically extending hospital stays and increasing health care costs. In order to tackle this problem, we need to develop predictive approaches that will help us not only extend the usefulness of existing antibiotics, but also inform the development of longer-lasting novel drugs.

The aim of this project is to improve our ability to predict multi-drug resistance evolution by understanding how the existing molecular mechanisms in the cell determine evolution. This project will involve constructing synthetic gene regulatory networks and experimentally probing them by introducing mutations into promoters and transcription factors that control the expression of multi-drug resistance pump, AcrAB-TolC. We aim to understand how biophysical mechanisms determine the effects of mutations in transcription factors and promoters, and hence how they drive resistance evolution. This project will dramatically improve our ability to predict antibiotic resistance evolution.

The specific aims of this project are flexible and can develop in many directions, reflecting postdoc's interests and expertise. An ideal candidate will have a collaborative spirit and independent drive, and will be encouraged to develop their own ideas and approaches.

For more information, and to apply, please visit https://www.jobs.manchester.ac.uk/Job/-JobDetail?isPreview=Yes&jobid=27198&advert=-external If you would like to discuss any aspects of the project, position or the environment, please do not hesitate to contact Mato at Mato.Lagator@manchester.ac.uk

Mato Lagator <mato.lagator@manchester.ac.uk>

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UmeaU ConiferGenomics

The Department of Ecology and Environmental Science at Umeï¿½ University, Sweden, invites applicants for a postdoctoral researcher position in conifer genomics, focusing on genomic structural variation and GWAS of fungal resistance and other breeding traits in Scots pine.

The position is fully funded for two years, starting in early spring 2024. The application deadline is December 31, 2023. For detailed information about the project, desired qualifications, and terms of employment, please visit:

https://www.umu.se/en/work-with-us/open-positions/postdoctoral-position-2-years-in-conifer-genomics_677323/ Applications are to be submitted through the universityï¿½s web link.

For additional information about the position, please contact Professor Xiao-Ru Wang, xiao-ru.wang@umu.se

We look forward to receiving your applications!

Xiao-Ru Wang

Dept. of Ecology & Environmental Science, Umeï¿½ University

S-901 87 Umeï¿½, Sweden

Xiao-Ru Wang <xiao-ru.wang@umu.se>

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UMilan ConservationBiology

The Department of Biosciences at University of Milan opens a position of

Postdoctoral Researcher in Ecology and Conservation Biology

We are looking for a highly motivated postdoctoral researcher in environmental sciences, particularly interested in ecology, biodiversity, conservation, and global change biology.

Starting date: 01.04.2024

Position duration: 2 years

Level of activity: 100%

Work location: University of Milan, Milan, Italy

Job description:

Worldwide, glaciers are retreating at historically unprecedented rates. Glacier retreat has dramatic impacts on mountain environments, influencing water availability and human well-being, modifying the biogeochemical cycles in downstream ecosystems, and determining the development of new ecosystems, with fast changes of biotic communities and overall biodiversity patterns. Nonetheless, forecasting the impact of glacier retreat on biodiversity and developing solutions to mitigate biodiversity loss are big problems that remain unsolved.

A postdoctoral research position is open in the Biodiversity Change group of Gianalberto Losapio at University of Milan. This position is part of an international project (MITEX https://sites.google.com/view/mitex) addressing conservation and management of biodiversity in glacial ecosystems. The overarching goal of this project is to develop a better understanding of how to halt biodiversity loss in glacial ecosystems through conservation actions. In particular, the candidate will identify evidence-based conservation actions for enhancing biodiversity, devising strategies to anticipate and mitigate the consequences of glacier extinction under climate change scenarios.

Salary and benefits are nationally competitive. The candidate will be supervised by Gianalberto Losapio and will collaborate and interact with a broader national and international network of researchers and stakeholders across the Alps.

Candidate profile:

We are looking for a highly motivated, enthusiastic, and independent person with a passion for science and nature. Talented scientists with a PhD in environmental sciences, ecology, conservation, and global change biology or related fields are particularly encouraged to apply. Applicants are expected to have advanced experience in fieldwork experiments, excellent quantitative and modelling skills, and knowledge of conservation and ecosystem management. A high level of written and spoken English proficiency is required. Knowledge of a second European language is a plus, but it is not necessary.

You will develop your research project while working in a multicultural, diverse, collaborative, and dynamic environment. University of Milan provides great opportunities for academic and professional training. We offer stimuli for developing critical thinking and to become an independent scientist. You will receive individualized attention and will have many opportunities to develop close collegial relationships with different scientists.

Application documents:

Please send your application including: (1) a motivation letter describing your reasons for pursuing a postdoc with us, your research interests, your preparation for doing research in environmental sciences, why we would be a good fit for your career plans and other aspects of your background; (2) your curriculum vitae with education, activities, awards, services, public outreach, and publication list with explanation of study relevance and your contribution; (3) names and contact details of three referees.

Apply at https://forms.office.com/e/96h4zbJKBt First decision will be notified by January 12th. Interviews will take place between 22 and 24 January 2024.

For informal inquiries and further information, do not hesitate to contact us at Gianalberto.Losapio@Unimi.it

Application deadline:

22 December 2023, 5 pm CET

“Gianalberto.Losapio@unimi.it”
<gianalberto.losapio@unimi.it>

UMinnesota EvolutionInvasiveSpecies

Open Position: Postdoctoral Associate University of Minnesota Starting Date: April 2024 Application Due: Open until filled Position: Postdoctoral Research Associate. 12-month appointment renewed annually (up to 2 years) based on performance and funds availability. Competitive salary with benefits.

Lab Supervisor: Dr. David Moeller (moeller@umn.edu); Dr. Ryan Briscoe Runquist (rbriscoe@umn.edu) Research Fields: geographic range dynamics, invasion ecology, local adaptation, climate change, species distribution modeling, biogeography

Description: The Moeller Lab (moellergroup.org) at the University of Minnesota, Twin Cities is seeking a postdoctoral associate for a funded project on evolutionary responses to climate change and consequences for geographic range dynamics. Our project specifically focuses on improving forecasts of range expansion for invasive plant species by incorporating knowledge of local adaptation to historical climate variation and its implications for responses to contemporary climate change. The project includes large-scale precipitation and temperature manipulation in combination with reciprocal transplants of genotypes of common tansy (Tanacetum vulgare) across four regions of Minnesota. This experiment has already been established and will continue for at least two additional years. The postdoc will lead data collection, statistical analysis, and publication of major results from the experiment. They will also lead the development of predictive distribution models that incorporate data from the experiment. The project is funded by the Minnesota Invasive Terrestrial Plants and Pest Center (MITPPC). We strongly encourage anyone with interests in any of the following areas to apply: geographic range dynamics, local adaptation, ecological genetics, eco-evolutionary dynamics, and biogeography.

In addition to the focal project, the postdoc will have opportunities to interface with other ongoing research in the Moeller Lab. First, there are opportunities to develop additional projects within the existing field experiment. Second, the lab has an additional newly-funded project on invasive species funded by USDA-NIFA. This project uses remote sensing to detect and monitor the population dynamics of invasive plant species using satellite imagery. The postdoc would work closely with other lab members working on this project. Third, the lab has conducted research on geographic range dynamics of a California native plant (Clarkia xantiana) for ca. 20 years with funding from NSF LTREB. The postdoc would have the opportunity to contribute to the analysis and publication of data from that long-term project. We would be happy to discuss more details.

Beyond research on range dynamics of invasive plants, the Moeller lab studies a diverse array of topics in plant evolution and ecology and uses a combination of research approaches including field experiments, long-term field studies, quantitative and population genetics, and distribution modeling. Researchers in the lab work on topics such as geographic range limits, speciation and hybridization, origins of polyploidy and its ecological consequences, and plant-microbe interactions. The diversity of interests promotes a culture of collaboration and cross-disciplinary research. At UMN, the postdoc will also be part of a larger vibrant and diverse community of faculty, postdocs, and students in ecology, evolution and genetics.

Qualifications: Required education and experience:

A completed Ph.D. in ecology, evolutionary biology, statistics or a related field.

Experience in field work and statistical modeling

Promising record of research productivity/Strong publication record in peer-reviewed journals

Required knowledge, skills, and abilities:

Excellent English writing and oral communication

Strong organizational skills

Ability to work in a collaborative environment

Ability to multitask

Ability to travel/drive to research sites in Minnesota with intermittent overnight stays at field stations or similar accommodations

Basic statistical knowledge

Desired knowledge, skills, and abilities:

Experience with statistical modeling and the handling of large datasets

Proficiency in programming (e.g. R, Python)

Experience with spatial data software or an interest in developing skills in this area (ArcGIS, QGIS, etc.)

Independent, self-motivated problem solver who communicates well and enjoys working in a collaborative setting

Breakdown of Duties Field work 30% Data analysis

30% Writing/Publications 30% Managing and mentoring undergraduates 5% Interaction with stakeholders and collaborators 5%

Salary: Starting salary is $57,000 per year with employee benefits. This position is available starting no later than May 2024. This is a two-year (24-month) position that will be appointed on an annual basis, dependent upon the candidate's performance.

Application Materials: Prospective candidates need to submit the following documents

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UMinnesota TwinCities Two CricketGenomics

Mingzi Xu (https://mingzixu.weebly.com) is seeking two post-doctoral associates to join the Xu lab in Department of Ecology, Evolution and Behavior at University of Minnesota-Twin Cities. The Xu lab conducts research to answer fundamental questions about sexual selection, evolution and genetics of behavior, and acoustic communication using crickets as a study system. We combine diverse research approaches including behavioral ecology, behavioral genetics, neurogenomics, bioacoustics and physiology, offering a rich context for lab members to learn.

Successful candidates will join projects that test hypotheses about selection on and neurogenomic mechanisms underlying (1) within species variation and (2) behavioral plasticity of song preference in the Hawaiian Laupala crickets. The postdocs will be involved in field collection and lab breeding of crickets, designing and conducting behavioral experiments, gene expression experiments, bioinformatics and data analysis. The postdocs are expected to present research at conferences and lead manuscript preparation for publication in high-quality peer-reviewed journals. Successful candidates, if interested in an academic career, are encouraged to ask new questions within the scope of the research in the lab that will help them develop their independent lines of research for future academic positions.

I welcome candidates with either behavioral ecology or behavioral genomics background who are keen to learn skills in the other area to apply. Candidates with qualifications in both areas will be given preference.

Both positions are expected to start in summer to early fall in 2024 and the exact start date is negotiable. Both positions are for two years, pending satisfactory review at the end of the first year. Continuation of the positions beyond two years depends on funding availability.

Required qualifications:

ï¿½ Ph.D. degree in evolution or related fields or degree expected before the start date

ï¿½ Demonstrated research experience in either behavioral ecology or behavioral genomics

ï¿½ Strong writing skills and experience in peer-reviewed publication

ï¿½ Demonstrated ability to work independently and strong communication skills

Preferred qualifications:

ï¿½ Experience in both behavioral ecology and genomics

ï¿½ Collaborative nature, ability to lead projects and work in teams

ï¿½ Proficiency in data analysis using R or similar programs

ï¿½ Demonstrated bioinformatic skills

ï¿½ Manual dexterity to work with small, delicate insects and conduct micro- dissections

Applicants should submit the following through UMN application system https://hr.umn.edu/Jobs/Find-Job. Job ID: 358493.

1. A cover letter

2. CV

3. A research statement no more than 3 pages specifying:

ï¿½ research interests

ï¿½ past research experience and what you can bring to the project

ï¿½ what you are looking for in the postdoc experience

ï¿½ how this postdoc can help you with your future career

4. Name, email address, and phone number of three references

5. One representative publication (published papers and preprints are both acceptable)

Review of application begins on Nov 30th and will continue until the positions are filled.

Mingzi Xu Assistant professor Department of Ecology,

Evolution and Behavior University of Minnesota https://mingzixu.weebly.com (she/her/hers)

xu000574@umn.edu

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

UNaples PlantEvolution

Postdoctoral position at the Dept. of Biology of University of Naples Federico II (Italy), on the project "Parallel adaptation of plants to URBAN POLLinators (URBANPOLL)"

A two-year postdoctoral position investigating pollinator-mediated selection and local adaptation in urban and natural populations of generalist plant speciesis available at the Department of Biology of University of Naples Federico II. This position will foresee floral trait phenotyping, reproductive success estimation, selection analysis in wild and experimental populations (common garden/transplantings) aimed at documenting parallel local adaptation of plants to urban pollinator communities. Experimental activities will be performed in Naples and in other Mediterranean Southern Italian urban areas.

I am searching for a postdoctoral researcher with a strong background in field experiments, plant reproductive biology and natural selection studies through plant phenotyping.

The research team is based at UNIVERSITY FEDERICO II located in Naples, a lively city in Southern Italy surrounded by many outstanding sites (Sorrento, Amalfi coast, Capri, Pompei and many other).

To apply, please send an email to Giovanni Scopece (giovanni.scopece@unina.it) with a full CV, a cover letter and the names and contact information of two references. Informal inquiries are also encouraged. Applications will be reviewed on an ongoing basis until the position is filled.

Initial date January 2024

Contact: Giovanni Scopece, PhD Department of Biology, University of Naples Federico II Complesso Universitario di MSA Via Cinthia, 80126, Napoli, Italia Building 7, room 0D-31 (room) Building 7, room 0D-32 (lab) Phone:+39-081679048 Fax:+39-081679233

Giovanni Scopece <giovanni.scopece@unina.it>

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

UNorthCarolina Greensboro PhenotypicEvolution

Post Doctoral Fellow position available at University of North Carolina at Greensboro, NC

The UNC Greensboro, Department of Biology seeks a Post Doctoral researcher in zoology, biological anthropology, or other life or engineering sciences with broad expertise and research experience in the use of micro-CT scanners (preferably Nikon) and 3D reconstruction software (e.g., Avizo/Amira, VG StudioMax, Dragonfly) to conduct collaborative research (50%), develop CT-based training and instructional materials for a broad user base (40%), and contribute to maintenance (10%) of a newly acquired, NSF-funded micro-CT scanner at the Joint School of Nanoscience and Nanoengineering (JSNN) in Greensboro, NC. The JSNN is a joint venture between UNC Greensboro and North Carolina A&T University. The researcher will have the opportunity to expand their own CT-based research portfolio to include training and instruction and to deeply engage in undergraduate and graduate student mentoring with a high proportion of students and faculty from underrepresented minority groups in STEM. We are especially interested in applicants with interests in evolutionary biology (including of modern and/or fossil vertebrates), phenotypic variation, and/ or trait-based ecology.

Successful applicants will have ample access to a new Nikon XT H 225 micro-CT scanner for developing new and collaborative research questions, as well as the numerous other analytical and imaging instruments housed at JSNN which create substantial potential synergies for new research.

UNC Greensboro is a Minority Serving Institution, with an undergraduate population of 55% ethnic minority students. UNC Greensboro and the Biology Department (https://biology.uncg.edu/) foster an environment of collaboration across departments and schools and support community-engaged research. UNC Greensboro is proud of the diversity of its student body, and we seek to attract an equally diverse applicant pool for this position. UNC Greensboro is in a metropolitan area of more than 1.7 million in the Piedmont region of North Carolina, between the Atlantic Ocean and the Appalachian Mountains. UNC Greensboro is an

EOE/AA/M/F/D/V employer and are strongly committed to increasing student, faculty, and staff diversity.

The position is immediately available, and candidates must hold or anticipate a Doctorate (Ph.D.) in Life or Engineering Sciences, or related discipline by date of hire. Preferred experience 2-5 years' working with micro-CT scanners and 3D imaging data is preferred.

To apply, visit http://spartantalent.uncg.edu/ navigate to the Research, apply to the Post-Doctoral Fellow, position #998689. Direct link to the posting is here: https://spartantalent.uncg.edu/postings/27765 You will need to submit the following: 1) Cover Letter 2) Resume 3) References, list three references contact information, email address, phone number and their relationship

Bryan McLean Assistant Professor University of North Carolina Greensboro Greensboro, NC 27402 www.mclean-lab.org *> explore UNCG Mammal < https://arctos.database.museum/SpecimenSearch.cfm?guid_prefix=UNCG%3AMamm > and Parasite < https://arctos.database.museum/SpecimenSearch.cfm?guid_prefix=UNCG%3APara > Collections via Arctos <* *> My working hours may not be your working hours. Please do not feel obligated to respond outside your normal working time. <*

Bryan McLean <b_mclean@uncg.edu>

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UPlymouth LearningInSeaAnemones

Learning in sea anemones, a multidimensional reaction norm approach.

A 3 year BBSRC funded postdoc. Consistent among individual behavioural differences (aka 'animal personality') have been found in a wide array of animals and in this project we will investigate how and why learning may differ across individuals, using the beadlet sea anemone as a model system. We will study learning within a framework of multidimensional behavioural plasticity, aiming to understand how genes and the environment may interact to cause covariation between habituation rates and other forms of behavioural plasticity including contest behaviour. We will generate rich data sets by combining high-throughput behavioural phenotyping with cutting edge genotyping by sequencing. Essential requirements are a PhD in animal behaviour, behavioural ecology or a related field, including experience of conducting behavioural experiments. Experience of working with SNP data, computer vision and machine learning, or multilevel modelling would also be desirable but is not essential. The BBSRC funded project will be based at Plymouth University in collaboration with Exeter University. It will primarily involve laboratory based experiments but some field work will also be required.

To apply: https://hrservices.plymouth.ac.uk/tlive_webrecruitment/wrd/run/ETREC107GF.open?VACANCY_ID=951178PMXl&WVID=1602750fTZ&LANG=USA
More info: mark.briffa@plymouth.ac.uk

Mark Briffa, Professor of Animal Behaviour, Plymouth University

http://www.plymouth.ac.uk/staff/mbriffa Mark Briffa <mark.briffa@plymouth.ac.uk>

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UppsalaU Two HumanPopGenAfrica

I am offering two postdoctoral positions in my group at Uppsala University. This is the announcement for the first position. If you find that both positions align with your qualifications, please feel free to apply for each. Please note the different application methods and different financing of the two positions.

Postdoctoral position in human population genetics and ancient DNA analyses of African populations

Work description: We are seeking an enthusiastic and skilled Postdoc to spearhead the computational analysis of our ancient DNA research on African human remains. The chosen candidate will take the lead in managing and analyzing diverse datasets, including general population genetic inferences on modern-day and ancient genomes and analysing shotgun sequencing metagenomic fractions. The project aims to generate an in-depth understanding of genetic adaptations and evolution in relation to changing lifeways and environments. This postdoctoral position provides a unique opportunity to contribute substantially to our knowledge of human evolution and the intricate interplay of health, pathogens,

diet and genomic adaptations over time.

Research will be conducted within the Schlebusch group, Human Evolution Program, Department of Organismal Biology (Evolutionary Biology Center, Uppsala University, Sweden). The group is funded by the Knut and Alice Wallenberg Foundation and the Swedish Research council. The Schlebusch group is specifically interested in studying human history on the African continent and uses genetic data from modern day populations and ancient remains as a tool for the inference of African history. The Human Evolution Program, in which the Schlebusch group is situated, has a broad interest in population genetics and human evolution. There are ample opportunities to work closely with postdocs and PhD students that focus on related projects. The research environment is international with English being the working language. See Prof. Schlebusch web-page for more information on the research and recent publications (http://www.iob.uu.se/research/human-evolution/schlebusch) and Human Evolution Program web-page for more information on the Program (http://www.iob.uu.se/research/human-evolution).

Duties: The work consists of working in Uppsala University's computer cluster, implementing scripts and running population genetic software as well as programming and statistical analysis.

Requirements: PhD degree in genetics, bioinformatics or another relevant field, or a foreign degree equivalent to a PhD degree in genetics, bioinformatics or another relevant field. The degree needs to be obtained by the time of the decision of employment. Those who have obtained a PhD degree three years prior to the application deadline are primarily considered for the employment. The starting point of the three-year frame period is the application deadline. Due to special circumstances, the degree may have been obtained earlier. The three-year period can be extended due to circumstances such as sick leave, parental leave, duties in labour unions, etc.

Proficiency in English is a requirement. Previous experience with large-scale genetic data analysis is a requirement.

Additional qualifications: The ideal candidate is highly motivated with thorough education and strong interest in evolutionary genetics/genomics, population genetics and human evolution. The candidate should have a strong bioinformatics background, preferably with experience in ancient DNA or related fields. Previous experience with bioinformatics, programming and implementation of aDNA bioinformatic pipelines is advantageous. Mathematical, computational and statistical training is also advantageous. Field work experience (especially in Africa) and an interest/background in African history is also advantageous.

About the employment: The employment is a temporary position of 2 years according to central collective agreement. Full time position. Starting date 1 February 2024 or as agreed. Placement: Uppsala, Sweden

For further information about the position, please contact: Carina Schlebusch, carina.schlebusch@ebc.uu.se

Please submit your application by 15 December 2023

Please submit applications through the University portal: https://mp.uu.se/web/info/vart-uu/lediga-jobb/-/-jobb/679608 Are you considering moving to Sweden to work at Uppsala University? Find out more about what it ï¿½s like to work and live in Sweden: https://-www.uu.se/en/about-uu/join-us/advantages/ Carina M. Schlebusch (PhD, Genetics) Professor of Human Evolution and Genetics Human Evolution Program, Department of Organismal Biology

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UToronto Mississaga UrbanEvolutionaryBiol

Post-Doc: The Centre for Urban Environments(CUE) (www.urbanenvironment.ca) at the University of Toronto, Mississauga(UTM) seeks applications for a fully-funded one-year Postdoctoral Fellowship. The topic of research by the postdoc is open to the study on urban environments, on any topic in the natural sciences or transdisciplinary perspective. Topics may include urban ecology and conservation, ecosystem services in cities, urban evolutionary biology

More information about this position can be found at: www.urbanenvironment.ca or email cue@utoronto.ca

Applications deadline: December 1, 2023 Start date: January to June 2024 (negotiable)

Sanya Wedemier-Graham <sanya.wedemiergraham@utoronto.ca>

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UTurku FunctionalGenomics

Postdoctoral researcher The Faculty of Science at the University of Turku invites applications for fixed term postdoctoral researcher position at the Department of Biology from 1.1.2024 to 31.12.2024. Employment starts on 1.1.2024 or as agreed. An extension of the contract is possible, subject to funding availability.

We are hiring a postdoctoral researcher in Functional Genomics into the Myanmar Timber Elephant Project led by professor Virpi Lummaa. The postdoctoral position is funded by the Research Council of Finland and will be based at the University of Turku, Finland. The project will be conducted in close collaboration with Camila Mazzoni's group in the Leibniz Institute for Zoo and Wildlife Research and the Berlin Center for Genomics in Biodiversity Research, in Berlin, Germany, where the researcher is expected to perform at least one research visit.

Job description The first phase of the postdoctoral position involves active participation in ongoing research related to Asian elephant population genomics and the analysis of the reference genome, with the valuable opportunity to contribute to their finalization and publication. The main goal of the project is to use cutting edge genomic and modelling methods, and a pre-existing diverse demographic data available for a large semi-captive population of Asian elephants with three distinct tusk morphs (long, short, none) to study the genetic basis of the tusk development, and the sex-specific selection pressures and evolutionary consequences of this trait in Asian elephants. The postdoctoral researcher will work on the genomic data already available, which includes the first annotated reference genome for the species, resequencing data for 67 individuals and RADseq data for 260 individuals. Besides, the researcher will be responsible for organizing the generation of new genomic data necessary to characterize genomic regions underlying phenotypic differences in tusk morphs. The work plan consists of the following tasks: processing and analysing whole genome and reduced representation genomic data using cutting edge analytical tools; performing bioinformatics analyses, mainly focused on genomic characterization and population and functional genomics; managing genomic data and computational resources for genomic data analysis, analyzing demographic data (survival, reproduction, health) for different tusk types, and writing scientific articles from the results.

Apply between 3 November 2023 and 30 November 2023 16:00 (Europe/Helsinki) at https://-ats.talentadore.com/apply/postdoctoral-researcher/-mEeazP Who we are looking for The candidate should hold a doctorate degree in Biology or related areas, and a scientific and professional background that aligns with the following specific activities:

Experience in research in functional genomics; Experience in using bioinformatics tools to analyze genomic DNA variation data, from population genomics to functional genomics; Experience in publishing research articles in international peer-reviewed scientific journals; Experience in managing and using genomic data and computational resources; Programming skills are valued; Fluent oral and written communication skills in English. We value equality and diversity in our work community and encourage qualified applicants, regardless of background, to apply for our open positions.

Desirable qualifications

We seek a highly motivated, enthusiastic and hard-working candidate. Applicant must show good interpersonal skills and be willing to work in close collaboration with the project PI and other members of the international project team, as well as have the ability to work independently.

Benefits We offer you responsible and interesting tasks and the opportunity to develop your professional skills in a versatile operating environment. You get a professional and inspiring team to support your work. We take care of your well-being at work and the functionality of your everyday life, e.g. with the help of flexible working hours and our well-being services.

Please read more about University of Turku as an employee fomr Come work with us! pages.

The European Commission has awarded the University of Turku the right to use the HR Excellence in Research logo. The logo is a token of the University's commitment to continuous development of the position and working conditions of researchers according to the guidelines set forth in the European Charter for Researchers.

The university offers good support and orientation for international hires. Please learn more about the Finnish culture and relocation to Finland:

City of Turku, Welcome visitor , Career in Southwest Finland, International House of Turku Working culture: infoFinland.fi This is Finland Careers in Southwest Finland Finland - a superpower of education and innovations | University of Turku (utu.fi)

Salary and trial period

UTurku Multiple SocietyAndEvolution

Postdoctoral researcher in Biology

The Faculty of Science at the University of Turku invites applications for a 3-year fixed term postdoctoral researcher position at the Department of Biology from 1.1.2024 to 31.12.2026. Employment starts on 1.1.2024 or as agreed.

We are hiring 2-3 postdoctoral researchers in an ERC-project called "KinSocieties", led by professor Virpi Lummaa. The postdoctoral positions are funded by the EU and will be based at the University of Turku, Finland.

Job description

Family, friends, and complex social networks are important in all human societies and other group-living non-human animals. Social interactions can improve health, support and resources, but close contact with conspecifics can also increase disease exposure and stress, and lead to competition and conflict. We are looking for 2-3 postdoctoral researchers to study the benefits and costs of sociality in our two complimentary study systems: humans and Asian elephants. Both species are currently facing drastic changes in social structures due to break-down of kin networks.

The postdocs will test how translocation to new areas with or without kin, friends or the familiar social group is associated with health outcomes, reproduction and mortality risk. They will flexibly use our two longitudinal datasets on:

(1) Life events of 100,000 Karelian war evacuees displaced during WW2 due to loss of territory and resettled elsewhere either individually or with their previous entire village maintaining old social bonds

(2) Follow-up data on translocations of semi-captive Asian elephants coupled with information on their group compositions, personalities, friendships, longitudinal health records (e.g. diseases, injuries) and various endocrinological stress measures and physiological health indexes Apply between 15 November 2023 and 8 December 2023 16:00(Europe/Helsinki)

Who we are looking for

The candidate should hold a doctorate degree in Biology or related areas, and the following specific skills:

- Expertise in social evolution, evolutionary demography and/or health studies; - Experience in methodological tools of network analyses and statistical methods such as survival analyses, multivariate analyses, discrete time-event analyses and generalized linear mixed models; - Experience in handling and combining large and complex datasets; - Experience in interdisciplinary collaborations and creative thinking; - Experience in publishing research articles in international peer- reviewed scientific journals; - Fluent oral and written communication skills in English.

We value equality and diversity in our work community and encourage qualified applicants, regardless of background, to apply for our open positions.

Desirable qualifications

We seek a highly motivated, enthusiastic and hard-working candidate with passion to learn more. The applicant must show good interpersonal skills and be willing to work in close collaboration with the project PI and other members of the international and inter-disciplinary project team, as well as have the ability to work independently.

Benefits

We offer you responsible and interesting tasks and the opportunity to develop your professional skills in a versatile operating environment. You get a professional and inspiring team to support your work. We take care of your well-being at work and the functionality of your everyday life, e.g. with the help of flexible working hours and our well-being services.

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City of Turku, Welcome visitor, Career in Southwest Finland, International House of Turku Working culture:infoFinland.fi This is Finland Careers in Southwest Finland Finland - a superpower of education and innovations | University of Turku (utu.fi)

Salary and trial period

The salary for the position is determined in accordance with the university salary system for research personnel. For the postdoctoral researcher salary follows the levels 5-6 of teaching and research staff (3150,54 - 3673,96 EUR/month). In addition, a personal work performance component will be paid. The personal work performance component is 6-50% of the task specific salary component. All standard pension benefits and occupational health care are provided for university employees.

The salary will be commensurate with qualifications and experience based on the University salary system and will in the beginning of the

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UWisconsin Milwaukee KelpGenomics

Postdoctoral Scholar - Kelp Genomics Position Description

Sound Restoration Fund (PSRF), in partnership with Dr. Filipe Alberto's lab at the University of Wisconsin-Milwaukee (UW-M), seeks a postdoctoral scholar for a one year position, to use genomics tools to understand the genetic underpinnings of bull kelp forests in Washington State. The postdoc's work is a critical piece of a broader project that will yield essential information for re-establishing and conserving kelp forests in the region, by maintaining genetic diversity of the kelp forests, and advancing in-water practices with tribal partners to directly support kelp forest restoration and farming. Applicants are required to have a PhD (in hand or near completion) in evolutionary ecology, plant breeding, population genetics/genomics, genetics or a similar field.

Preference will be given to candidates with a strong bioinformatics background, to tackle large data sets of Whole Genome Sequencing (WGS) sequenced individuals. We are looking for someone with demonstrated experience (as evidenced by publications and letters of reference) in at least two of the following broad topics: differential expression analysis from RNA-seq experiments; analysis of large sets of WGS data mapped to an annotated reference genome, including characterization of genomic regions under selection, demographic and seascape genomics analysis; simulation and analysis of population genomics data sets, genomic analysis of epigenetic variation. The candidate should be familiar with UNIX operating systems (e.g., Linux), bash scripting, and code in at least one programming language, preferably Python or R.

The postdoc will be responsible for: 1) Analyzing samples by RNA-seq to characterize gene enrichment associated with environmental responses of a kelp reciprocal outplant experiment, to discern degree of local adaptation; and 2) Conducting a population genomic analysis to detect putative local adaptation and infer population dynamics history. They will also prepare written reports and publications and presentations of findings; contribute to project reporting and development of outreach materials, and work collaboratively with the project team and other partners.

Salary for this 12-month position is $60,000, as part of a grant from Washington Sea Grant. The postdoc will receive PSRF's suite of competitive benefits. The location of the position is flexible, with the postdoc being based either in the Puget Sound region or at the University of Wisconsin-Milwaukee. There is flexibility in the start date of the position, with a general target of winter 2023/2024. The postdoc will be supported jointly by PSRF and Dr. Alberto and his lab group at UW-M.

By way of background, PSRF works to restore abundant marine resources and our connections to them through a diverse portfolio of in-water projects throughout Puget Sound. The main focus of our restoration is living marine habitat and species, using structure forming species (Olympia oysters, bull kelp) and habitat enhancing species (pinto abalone). Our staff works to advance our mission of designing, testing, and spearheading in-water actions to restore Puget Sound's marine habitats, species, and waters - for people and place. We do so with a wide range of collaborators, from academics to managers and regulators, to community scientists, shellfish growers, and the public. The postdoc will be able to engage with the PSRFand UW-M networks of other bull kelp scientists and restoration practitioners along the US West Coast, to conduct actionable research with real-world implications for kelp restoration and cultivation in the region.

PSRF recognizes that people build skills through all sorts of experiences, and welcomes applicants with a wide variety of backgrounds. We warmly welcome candidates from backgrounds that are underrepresented in marine science and restoration to apply. PSRF seeks to

create an inclusive and equitable work environment at PSRF and in our work with partners, and we are committed to supporting staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.

To apply

Please email a CV, cover letter and names of 3 references to Jodie Toft (jodie@restorationfund.org). The team will begin to review applications on December 1st, and the position will remain open until filled.

albertof@uwm.edu

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UYork UK AnthropoceneIntrogression

Adaptive introgression in the Anthropocene

We are looking for a 3 year postdoctoral research associate (PDRA) to work on a NERC-funded project "Adaptive introgression in the Anthropocene" led by Kanchon Dasmahapatra at the University of York. The main aim of the project is to understand the prevalence and impact of gene flow between native and non-native flowering plant species in the British Isles making use of newly generated genome assemblies and large whole genome resequence datasets.

Human translocation of species and anthropogenic climate change are resulting in some of the fastest rates of species distribution changes ever seen, causing many native and non-native species to be brought together. While the ecological consequences are often well-documented, the evolutionary impacts of hybridization and gene flow between native and non-native species are usually less visible. In this ambitious project we will leverage reference genomes produced by the Darwin Tree of Life project and combine high-throughput sequencing with the latest bioinformatic methods to address a major question of growing importance: What is the extent of gene flow between native and non-native flowering plant species, and is this gene flow of adaptive value to native or non-native species? These data will be used to parameterise models predicting the rate of gene flow between native and non-native species, and test model estimates of cryptic gene flow among species pairs that have not been observed to hybridize. The British flora is intensively studied, and its well characterised distributions, hybrids and ecology make it an ideal model system to build predictive models exploring ecological and genetics factors affecting the rates and effects of gene flow between native and non-native species.

The PDRA will be based in York at the Leverhulme Centre for Anthropocene Biodiversity (https://-www.york.ac.uk/anthropocene-biodiversity/), and be supervised by Kanchon Dasmahapatra (http://-www.york.ac.uk/res/dasmahapatra/).

Project co-investigators and partners: Alex Twyford and Simon Martin (University of Edinburgh), Pete Hollingsworth and Markus Ruhsam (Royal Botanic Garden, Edinburgh), Chris Thomas (University of York), Mark Blaxter (Wellcome Sanger Institute), Kevin Walker (Botanical Society of Britain and Ireland).

Closing date: 4th December 2023. Start Date: 1st February 2024 (negotiable).

For informal enquiries email kanchon.dasmahapatra@york.ac.uk.

To apply click the "Apply now" button at the bottom of the University of York job advertisement: https://jobs.york.ac.uk/vacancy/research-associate-in-evolutionary-biology-539309.html Prof Kanchon Dasmahapatra (kanchon.dasmahapatra@york.ac.uk) Professor of Evolutionary Biology Director of Postgraduate Research (Biology) Department of Biology University of York York YO10 5DD Tel: +44 (0)1904 328635

Kanchon Dasmahapatra <kanchon.dasmahapatra@york.ac.uk>

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

UYork UK PlantGenomeIntrogression

Last week to apply for this position. Closing date: 4th December 2023. Start Date: 1st February 2024 (negotiable).

Adaptive introgression in the Anthropocene

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sociate (PDRA) to work on a NERC-funded project "Adaptive introgression in the Anthropocene" led by Kanchon Dasmahapatra at the University of York. The main aim of the project is to understand the prevalence and impact of gene flow between native and non-native flowering plant species in the British Isles making use of newly generated genome assemblies and large whole genome resequence datasets.

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To apply click the "Apply now" button at the bottom of the University of York job advertisement: https://jobs.york.ac.uk/vacancy/research-associate-in-evolutionary-biology-539309.html Prof Kanchon Dasmahapatra (kanchon.dasmahapatra@york.ac.uk) Professor of Evolutionary Biology Director of Postgraduate Research (Biology) Department of Biology University of York York YO10 5DD Tel: +44 (0)1904 328635

Kanchon Dasmahapatra <kanchon.dasmahapatra@york.ac.uk>

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YaleU Two EcologicalDiversity

Postdoc Position - Deep learning-informed spatial biodiversity science

A 2-3 year postdoc position is available in association with the Yale Center for Biodiversity and Global Change < http://bgc.yale.edu/ > (BGC Center). We are seeking a highly quantitative scientist with a strong background in machine and deep learning and an interest in the modeling of spatial biodiversity patterns and trends. The successful applicant will conduct research using cutting-edge deep learning (self-supervised learning, large language models, image recognition) towards predicting, monitoring, and understanding of spatial ecological processes, and specifically species distribution dynamics, at scale. Planned research projects will target the integration of remote sensing and human or sensor-supported species observations.

Depending on thematic focus, the successful candidate will have the opportunity to collaborate closely with project partners at the University of Zurich (Jan Wegner group), the University College London (Benjamin Kellenberger Lab, BGC Center alumnus, start 2024), and/or WSL ETH Zurich (Nick Zimmermann Group), and spend part of the postdoc at a partner institution. Support for project-related travel and workshops is available. We support formal co-mentorship arrangements developed jointly with the successful applicant and long-term visits to partner institutions. Financial support for project-related travel and workshops is available. Target start date for the position is spring/summer 2024, but there is flexibility.

How to apply: Please send the following documents to ybgc@yale.edu by Dec 8, 2023: Cover letter, CV, names and contact information for two referees.

The Yale BGC Center < http://bgc.yale.edu/ > sup-

ports research and training around the use of new technologies and data flows for model-based inference and prediction of biodiversity change. One flagship BGC Center project is Map of Life < https://-mol.org/ > and its associated activities supporting the GEO BON Species Population Essential Biodiversity Variables < https://geobon.org/ebvs/working-groups/-species-populations/ >, biodiversity change indicators < https://mol.org/indicators >, and the Half-Earth Map < https://www.half-earthproject.org/maps/ >. Other initiatives associated with the Center include the integration of spatial, phylogenetic, and functional dimensions of biodiversity (e.g., VertLife < http://vertlife.org/- >), NASA-supported remote sensing-informed layers and tools for biodiversity modeling (e.g. EarthEnv < http://earthenv.org/ >), animal movement analysis (e.g., through our partnerships with Max Planck and the International Biologging Initiative), and novel biodiversity sensors, (e.g. with the Wildlife Insights < https://wildlifeinsights.org/ > initiative for camera trapping data). Finally, the Center supports the development of new field-based technologies for biodiversity assessment through the Map of Life Rapid Assessments < https://mol.org/rapidassessments > Project, an X-Prize Rainforest Finalist.

We strongly encourage members of underrepresented groups in the sciences to apply. Historical and ongoing social inequities rooted in racism, sexism, ableism, and other forms of discrimination result in the continued and widespread exclusion of marginalized groups from academic spaces. At our Center, we strive to support individuals from diverse backgrounds and to create a safe and inclusive community to counter these legacies of discrimination within the ecological and environmental sciences. We are actively committed to building a team and community where individuals representing a variety of paths to the sciences are brought together to foster a community of learning and collaboration. We hope that our commitments and actions create a more supportive and inspiring environment for individuals and contribute to a more inclusive and equitable future for our field.

Yale University < https://www.yale.edu/about-yale > offers a thriving and growing international community of scholars in ecology, evolution and global change science in the Department of Ecology and Evolutionary Biology < http://www.eeb.yale.edu/ >, the Yale Institute for Biospheric Studies < http://www.yale.edu/yibs >, the Peabody Museum < http://peabody.yale.edu/-researchers >, and the School of the

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WorkshopsCourses

CzechRep PolyploidPopGen Mar15-22 DeadlineNov30

4th International Workshop on Population genetics of polyploids, from theory to practice Mohelno Field station, Czech Republic, 15 March - 22 March 2024

Second announcement - Application deadline 30 November 2023!

Organizers: Alison Scott, Filip Kolar, Patrick Meirmans, Marc Stift.

Objectives: Polyploidy is widespread and frequent in plants, but also occurs in animals such as fish and amphibians. However, our understanding of the genetics of polyploid populations is still poor, mainly because population genetics theory was originally developed for diploids. Moreover, there is often a gap between theory developed for polyploids and its practical implementation. This hands-on workshop will attempt to bridge this gap. Simulation-based exercises (among others using R) will elucidate theoretical foundations of both diploid and polyploid population genetics, and cases of mixed ploidy. Additionally, analyses of real(istic) example datasets will give participants hands-on training in several available methods for the population genetic analysis of polyploids.

Prerequisites: Basic knowledge of R programming language and general knowledge of population genetic foundations of diploid populations (diversity, differentiation). Experience in scripting and simulation in R is useful, but we offer an optional crash-course for beginners before the workshop.

Costs: participation and accommodation is free. Travel arrangements, meals and other expenses will be at own cost. Staff and participants will organize the meals together to keep costs as low as possible.

Who can apply: The course is aimed at PhD students, but we will consider applications from experienced Master-students and early-postdocs. The number of participants is limited, and we will select participants based on their motivation, career stage and topical relevance.

How to apply:

STEP 1 - Fill out the application form at https://-forms.gle/YdZbPeEGfcQynATY7 . STEP 2 - Prepare a CV and a motivation letter, which summarizes your research and your motivation to participate in the workshop (maximum 500 words). Merge CV+letter in a single PDF and send to polyploids2024@gmail.com

Finalize both steps no later than 30 November 2023. Applications completed after the deadline will only be considered if there are still spaces available.

Own data: In case you are willing to provide own data for the project work (not obligatory), please provide a short description of the data set (organism, type of markers, analyses done/in progress) and the scientific questions that could be addressed.

International Workshop on Polyploid Population Genetics (4th edition) Organizers: Alison Scott, Filip Kolar, Patrick Meirmans, Marc Stift. polyploids2024@gmail.com

polyploids2024@gmail.com

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Hinxton UK CoME2024 AdvancedCompMolEvolution May18-29

Dear Colleagues,

This is to remind that CoME2024 is accepting applications, and the deadline is 30 November 2023. Please visit the following link.

Wellcome Advanced Workshop on “Computational Molecular Evolution”, 18-29 May 2024, Wellcome Genome Campus, Hinxton, UK Application deadline: 30 November 2023

CoME2024, our 14th summer school on COmputational Molecular Evolution, is now open for application. For further information and to apply, please visit

https://coursesandconferences.wellcomeconnectingscience.org/-event/computational-molecular-evolution-20240518/
ziheng yang on behalf of the organizers.

“Yang, Ziheng” <z.yang@ucl.ac.uk>

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NHM London BotanicalResearchTools Mar18-22

Dear all,

Applications are now open for the NERC funded short course "Taxonomic principles and tools in botanical research".

This is a five-day course held onsite at the Natural History Museum, London.

Course dates: 18-22 March 2024 Application deadline: 7 January 2024 Course website: https://www.nhm.ac.uk/-our-science/study/training/taxonomic-principles-botanical-research.html This course combines a mixture of lectures, demonstrations, and hands-on practical sessions. It also includes a one-day field excursion to provide key training in taxonomic and field skills across a broad range of botanical groups.

Training will be tailored to the requirements of the participants, with course delegates able to choose from and receive specialist training in vascular plants (flowering plants and ferns), bryophytes, lichens or seaweeds.

This course has a capacity for 24 participants. It is suitable for PhD students, postdoctoral researchers, early career biology and environmental sciences researchers and applied users, who lack the taxonomic expertise necessary to optimally produce/access/use taxonomic information as well as to interpret effectively data generated by other techniques.

Further information, together with links to the application form can be found on the course website:

https://www.nhm.ac.uk/our-science/study/training/-taxonomic-principles-botanical-research.html

Dr Nick Crumpton Short Course Programme Coordinator

Natural History Museum Cromwell Road, London, SW7 5BD nick.crumpton@nhm.ac.uk

Nick Crumpton <nick.crumpton@nhm.ac.uk>

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Online AnalysesUsingPhylogenies,Jan16-26

Dear colleagues,

There is a new (11th) edition of the Transmitting Science course "Introduction to Macroevolutionary Analyses Using Phylogenies".

Format: Live Online (synchronous). Places are limited to 15 participants.

Dates and schedule: 16, 17, 19, 25, and 26 January, from 15:00 to 19:00 (Madrid time zone). 20 hours of online live lessons, plus 20 hours of pre-recorded classes and assignments.

Instructor: Dr. Juan L. Cantalapiedra [1] (Universidad de Alcalï¿½, Spain)

More information and registration: https://-www.transmittingscience.com/courses/evolution/-introduction-macroevolutionary-analyses-using-phylogenies/ Check ther Ambassadors Institutions to see if you can apply for 20 % discount (https://-www.transmittingscience.com/funding/ambassador-institutions/)

Course Overview

Phylogenetic trees have changed the way we study and understand life on Earth. Taking phylogenetic information into account in our analyses is critical to account for the non-independence of biological data. Also, phylogenies allow us to get a deep-time perspective of the processes that have shaped the evolutionary history of groups, including diversification and trait evolution.

This course will introduce participants to the use, modification and representation of phylogenetic trees. Also, we will focus on the use of phylogenetic information to reconstruct ancestral characters and biogeographic histories, using different phylogenetic comparative methods.

This course will also tackle trait evolution modelling and the assessment of phylogenetic signal. Finally, we will learn about the shape of phylogenetic trees and its evolutionary causes, and how to estimate the rates of diversification throughout the history of groups. Participants are encouraged to bring their data sets to use in the practical classes.

The course includes an optional first introductory day

to basic R.

Important note: Please bear in mind that this course is not about reconstructing (building) phylogenetic trees.

Software: Mesquite, FigTree, R (ape, TreeSim, TreePar, Geiger, OUwie, BioGeoBEARS).

Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890 Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or http://transmittingscience.com/additional-terms. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www. aepd.es . Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

Links: — [1] https://www.transmittingscience.com/-instructors/juan-l-cantalapiedra/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online Bioinformatics Feb26-Mar1

Dear all,

registrations are now open for the Physalia "Winter School in Bioinformatics"!

Dates: online, 26 February - 1 March

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 about our courses and workshops, please have a look at: (https://www.physalia-courses.org/courses-workshops/course68/)

Best regards, Carlo

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Online Bioinformatics Snakemake Nov22-24

Dear All

We'd like to invite applications to our online workshop: Bioinformatics Workflows with Snakemake.

Researchers needing to implement data analysis workflows face a number of common challenges, including the need to organise their tasks, make effective use of compute resources, handle unexpected errors in processing, and document and share their methods. The Snakemake workflow system provides effective solutions to these problems. By the end of the course, you will be confident in using Snakemake to tackle complex workflow problems and in your day-to-day research.

About Snakemake Snakemake is a popular open-source tool to create reproducible and scalable data analyses. Workflows are described via a human readable language that defines steps in the workflow as rules, and these are then used by Snakemake to construct and execute a work plan to yield the desired output. Re-calculation of existing results is avoided where possible, so you can add or update input data, then efficiently generate an updated result. Workflows can be seamlessly scaled to server, cluster, grid and cloud environments without the need to modify the workflow definition.

Who this course is for This course is intended for researchers who need to automate data analysis tasks for biological research involving next-generation sequence data, for example RNA-seq analysis, variant calling, CHIP-Seq, bacterial genome assembly, etc. Attendees must have a working knowledge of how to use the Linux BASH command line - our 1-day "Linux for bioinformatics" course is a suitable background. The language used to write Snakemake workflows is Python-based, but no prior knowledge of Python is required or assumed.

Time: 9am - 5pm each day

Registration fee: University of Edinburgh Staff/ Students - 340 Other University Staff/Students - 360 Industry staff - 390

Instructors Tim Booth & Frances Turner - Bioinformaticians, Edinburgh Genomics

For more information and registration please see our website: https://genomics.ed.ac.uk/services/bioinformatics-workflows-snakemake Kind Regards

Nathan Medd (Training Manager, Edinburgh Genomics)

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Nathan Medd <nmedd@ed.ac.uk>

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Online ComparativeGenomics Feb12-16

Dear all,

registrations are now open for the online Comparative Genomics course in February (12th-16th).

Course website: (https://www.physalia-courses.org/-courses-workshops/course34/)

This course is designed to introduce biologists and bioinformaticians to the realm of comparative genomics. We will cover a wide spectrum of software and analysis workflows, from assembling and annotating small eukaryotic genomes to identifying single nucleotide variants (SNVs) and structural variants (SVs). You'll also learn to assess the functional impact of detected variants within an evolutionary context.

By the end of this course, you will achieve the following: - Identification of SNPs and SVs through de novo genome assembly and read mapping strategies. - Assessment of different DNA sequencing technologies (Illumina, Pacific Bioscience, Oxford Nanopore) for variation detection. - Understanding the strengths and limitations of de novo assembly and mapping in comparative genomics. - Hands-on experience with cutting-edge methods for comparing multiple genomes. - Annotation of variations and conducting comparative genomics analysis. - Proficiency in biological sequence analysis within an evolutionary context. For the full list of our courses and workshops, please check it out: (https://www.physalia-courses.org/courses-workshops/course34/)

Best regards, Carlo

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Online ComputationalTumorEvolution Feb26-Mar1

Dear all, registrations are now open for our upcoming online course on "Computational Tumor Evolution from Bulk DNA Sequencing," scheduled from February 26 to March 1, 2024.

Course Highlights: Format: Online sessions to facilitate international participation. Duration: 5 days of comprehensive theoretical and practical learning. Time: Sessions run from 14:00 to 20:00 (Monday to Friday) with regular breaks. Register now: (https://www.physalia-courses.org/courses-workshops/tumor-evolution/)

In the dynamic landscape of genomics and cancer research, deciphering tumor evolution is paramount. Our course offers a unique blend of theoretical insights, practical applications, and peer-to-peer learning. Participants will work with real sequencing data, apply computational tools, and gain a deeper understanding of tumor genomics.

This course caters to researchers, clinicians, bioinformaticians, and anyone passionate about tumor genomics. While a basic understanding of genetics is recommended, no prior knowledge of computational tools is required. Basic R programming skills using tidyverse packages are suggested as a pre-requisite.

Upon completion, participants will possess the skills to analyse genomic data from bulk DNA sequencing, contributing to advancements in cancer diagnostics and treatment strategies.

Program Highlights: Day 1: Foundation of tumor evolution and R coding refresh. Day 2: Quality control for mutation calling and copy number analysis. Day 3: Evolutionary analysis and interpreting clonal mutations. Day 4: Advanced multi-sample designs and mutational signatures. Day 5: Project day - apply your knowledge to real sequencing data. For the full list of our courses and workshops, please have a look at: (https://www.physalia-courses.org/courses-workshops/-tumor-evolution/)

If you have any questions or need further information, feel free to reach out. Best regards,

Carlo

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Online GenomeAssemblyAnnotation Mar18-22

Dear all,

We are excited to announce our upcoming online course on "Assembly and Annotation of Genomes," scheduled for 18-22 March 2024.

Course website: (https://www.physalia-courses.org/-courses-workshops/course20/)

This comprehensive course is designed to introduce biologists and bioinformaticians to the principles of de novo genome assembly and annotation. Participants will explore theoretical frameworks and practical examples, covering various sequencing technologies, such as Illumina short reads, PacBio HiFi and CLR reads, Oxford Nanopore long and ultralong reads, and scaffolding technologies like optical mapping and Hi-C. Quality control, consensus, structural error mitigation, manual curation, and the concept of Telomere-to-telomere (T2T) genome assembly will be emphasized.

At the end of this course, attendees will be able to:

Understand de novo genome assembly and annotation concepts for genomes of all sizes. Evaluate the strengths and weaknesses of various sequencing technologies and scaffolding methods. Gain hands-on experience with tools for assembly, quality evaluation, visualization, and manual curation. Acquire practical skills in feature annotation, including genes and repeats. For the full list of our courses: (https://www.physalia-courses.org/-courses-workshops/)

Best regards, Carlo

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Online GenomeAssemblyWithNanopore Mar4-8

Dear all,

We're excited to announce our upcoming online course on "Genome Assembly Using Oxford Nanopore Sequencing," taking place from March 4 to March 8, 2024.

Course website: (https://www.physalia-courses.org/-courses-workshops/course59/)

This course will introduce participants to a range of methods to complete the steps required to process raw Oxford Nanopore Technologies sequencing data into a fully assembled, polished and quality controlled genome assembly, both with and without accompanying short reads, and with and without a reference genome. Over five days, we will include a combination of both theoretical background and practical application using model viral and bacterial datasets, concluding with a full run-through of the assembly, polishing and quality control pipeline at each course participants' own pace.

After completing this course, the participants will:

- Learn the advantages and disadvantages of long-read sequencing Understand the steps involved in genome assembly using long read data Gain practical experience in choosing and using the optimal tools for a variety of dataset types, including microbiome, bacterial, viral and mammalian

For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

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Online IntroAnalysisMorphologicalDisparity Nov20-29

Dear colleagues,

There are a few slots left for the course "Introduction to the Analysis of Morphological Disparity"

Schedule: Online live sessions on the 20th, 22nd, 24th, 27th, and 29th of November, from 13:00 to 18:00 (Madrid time zone).

Course overview:

Analyses of morphological disparity provide unique perspectives of evolutionary history, quantifying the anatomical variety of clades and their fluctuation through time. This course will provide an in-depth overview of the different types of data and methods that underpin these analyses and give participants the necessary skills and understanding to apply them to their own research questions.

Across five days, we will cover the advantages and disadvantages of different types of morphological data in analyses of disparity, the range of distance metrics that can be used to quantify intertaxon dissimilarity, and the ordination methods that can be used to reduce dimensionality and facilitate interpretation. How the resulting patterns in disparity can be visualised, quantified, and interpreted with nuance will also be covered at length.

This course will be predominantly practical but will include some theoretical lectures to provide a thorough grounding in the fundamentals of distance metric calculation and ordination. How different types of morphological data are derived will also be discussed but will not be included in the practical component of the course. All analyses will be conducted in R, a free software environment for statistical computing and graphics (https://www.r-project.org/). These analyses will use functions from a variety of packages including ape, geiger, phytools, phangorn, Claddis, dispRity, vegan, and geomorph.

We will provide a selection of model datasets for participants to use during the practical components of the course. However, we encourage attendees to bring their

own datasets so that they can gain experience tailoring the techniques this course will introduce to their own analytical needs right away.

You can check the full information (and registrations) here: https://www.transmittingscience.com/-courses/evolution/introduction-to-the-analysis-of-morphological-disparity/ Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: https://orcid.org/0000-0002-2049-0890 Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or http://transmittingscience.com/additional-terms. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www. aepd.es . Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

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Online IntroBayesianDataAnalysis Feb12-16

Dear all,

registrations are open for the upcoming course on "Bayesian Data Analysis: Theory & Practice".

Course Details: - **Dates:** February 12-16, 2024 - **Location:** ONLINE (To encourage international participation) - **Location:** (https://www.physalia-courses.org/courses-workshops/course46/)

Our course is designed to provide a practical and application-oriented introduction to Bayesian data analysis. It equips you with the essential tools to "think like a Bayesian" by delving into explicit models of the data-generating process. Throughout the course, you'll gain a solid understanding of Bayesian data analysis concepts, complete with hands-on exercises and real-world examples.

This course is suitable for beginners looking for their first introduction to Bayesian data analysis and those with prior experience in BDA and Bayesian regression modeling. Basic familiarity with R is assumed, and we'll be using the tidyverse.

Course Outline: - **Monday:** Introduction, BDA basics, generative-process models - **Tuesday:** MCMC methods, Bayesian parameter inference, simple linear regression - **Wednesday:** Model checking, generalized linear models - **Thursday:** Bayesian model comparison, multi-level modeling - **Friday:** Good practices, reporting results, open discussions

For the full list of our courses and Workshops, please have a look at: (https://www.physalia-courses.org/-courses-workshops/)

Best regards, Carlo

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Online MachineLearningInR Feb19-23

Dear all,

Unlock the power of machine learning in data analysis with our course, "Machine Learning - a Hands-On Introduction in R."

Course Details: - **Dates:** 19-23 February 2024 - **Format:** Online to welcome international participants - **Course website:** (https://www.physalia-courses.org/courses-workshops/course43/)

Whether you're in biology or any other field, our course will equip you with the skills needed to handle complex multi-omics datasets. Discover the advantages and limitations of these techniques and gain hands-on experience in using multivariate methods and machine learning for 'omics data analysis.

No prior machine learning knowledge is required! This course is designed for beginners, assuming only a basic familiarity with the R programming language.

Each session includes a two-hour lecture followed by one hour of practical exercises and demonstrations. We encourage active participation, discussions, and problem-solving to enhance your learning experience.

For more information about our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops/course43/)

Best regards, Carlo

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Online Proteomics Mar18-20

Dear all,

We're excited to announce our upcoming online course on "R/Bioconductor for Mass Spectrometry and Proteomics," taking place from March 18-20, 2024.

Course website: (https://www.physalia-courses.org/courses-workshops/course58/)

This course is designed to introduce participants to the intricacies of analysing mass spectrometry-based proteomics data using R and Bioconductor. From raw data to identification, quantitation, and statistical interpretation, our hands-on tutorials ensure you leave with practical skills. By the end of the course, you'll confidently manipulate MS data in R and utilise existing packages for exploratory and statistical proteomics data analysis.

Monday - Classes from 2 pm to 8 pm Berlin time

During the first day, we will focus on raw MS data, including how mass spectrometry works, how raw MS data looks like, MS data formats, and how to extract, manipulate and visualise raw data.

Tuesday- Classes from 2 pm to 8 pm Berlin time

The second day will focus in identification data, how to combine them with raw data, quantitation of MS data, and introduce data structure of quantitative proteomics data

Wednesday- Classes from 2 pm to 8 pm Berlin time

The last day will focus on quantitative proteomics, including data structures, data processing, visualisation statistical analysis to identify differentially expression proteins between two groups.

For the full list of our courses and workshops, please check it out: (https://www.physalia-courses.org/courses-workshops/course58/)

Best regards, Carlo

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Online RNAseqNonModelOrganisms Dec11-15

Dear all,

there are the last seats available for the course "RNA-SEQ ANALYSES IN NON-MODEL ORGANISMS"

Dates: online, December 11th-15th Course website: (https://www.physalia-courses.org/courses-workshops/-course11/)

This course provides an overview of modern applications of transcriptome sequencing and popular tools and algorithms for exploring transcript reconstruction and expression analysis in a genome-free manner, leveraging the Trinity software and analysis framework. Attendees will perform quality assessment of Illumina RNA-Seq data, assemble a transcriptome using, among others, Trinity, quantify transcript expression, leverage Bioconductor tools for differential expression analysis, and apply Trinotate to functionally annotate transcripts. In parallel to the short-read assembly, participants will perform the pre-processing of 3rd generation sequencing data (PacBio IsoSeq) and the resulting assemblies will be compared. Additional methods will then be explored for characterizing the assembled transcriptome and revealing biological findings. Basic experience with linux command-line execution and execution of bioinformatics tools would be helpful. We will begin the course with a review of basic linux commands and operations as a refresher. No programming or scripting knowledge is required. For the full list of our courses and workshops, please visit: (https://www.physalia-courses.org/courses-workshops) Best regards, Carlo

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Online SpatialEcoPhylogenetics Mar19-22

ONLINE COURSE - An Introduction to Spatial Eco-Phylogenetics and Comparative Methods (SECM01)

https://www.prstats.org/course/an-introduction-to-spatial-eco-phylogenetics-and-comparative-methods-secm01/ 19th - 22nd March 2024

Please feel free to share!

COURSE OVERVIEW - In this course we introduce phylogenetic analyses in a spatial context. Phylogenetic analyses often imply a high number of species for which phylogenetic information is unavailable, hence we begin by providing an overview on modern techniques to incorporate phylogenetic uncertainty in the analyses (day 1). We then cover the most popular analyses in the spatial phylogenetics discipline (day 2), with particular focus on the canonical analysis of neo- and paleo-endemism (CANAPE). The second part of the course will be devoted to integrating phylogenetic information into models of geographic distribution of species (day 3), followed by an overview of recent advances to improve ecological forecasts using phylogenetic mixed models in a Bayesian framework (day 4).

By the end of the course, participants should:

Know how to expand incomplete phylogenies based on taxonomic information and customizing simulation parameters for optimal expansion. Understand the metrics and concepts used in spatial phylogenetics (i.e. phylogenetic alpha and beta diversity, phylogenetic endemism), interpret them critically, and assess pros and cons of analytical techniques. Calculate phylogenetic predictors that can be included as covariates in Species Distribution or Niche Models. Understand and implement the phylogenetic mixed model (PMM) and translate its predictions into a spatial context.

Day 1 - Expansion of molecular trees using taxonomic information and fundamental metrics of phylogenetic structure

Software for tree expansion exercises; randtip, PhyloMaker

An overview of the fundamental metrics of phylogenetic structure. Null models.

Day 2 - Spatial Phylogenetics

Canonical analysis of neo- and paleo- endemism. Metrics, rationale, workflow, and implementation.

Day 3 - Phylogenetic Species Distribution Models

Putting phylogenies in the geography: the imprints of evolutionary relationships in distribution models.

Combining phylogenies with co-occurrence to infer spatial phylogenetic predictors.

Fitting, evaluating and interpreting Phylogenetic-SDMs.

Day 4 - Beyond PGLS - Bayes and more

Most common phylogenetic modelling approaches: PGLS

PGLMM

The phylogenetic mixed model (PMM) in a Bayesian framework

Please email oliverhooker@prstatistics.com with any questions.

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Smithsonian MarineInvertTaxonomy

Here are the descriptions for each course:

Biology and systematics of nemerteans: The course is aimed at graduate students, post-docs, or professionals who are interested in learning and applying knowledge about the biology, diversity, evolution and systematics of a fascinating and ecologically important but understudied phylum of marine invertebrates - the nemerteans (ribbon worms). The students participating in this course will: - Learn how to collect nemerteans associated with shallow coral reefs, mangrove fouling communities, and macroalgae of the Bocas del Toro region - Learn general biological characteristics of the group, major taxonomic subdivisions, and characters used for species identification and description - Learn to collect and identify planktonic larvae of nemerteans - Learn to preserve larval and adult nemerteans for subsequent morphological and molecular studies

Application:Please e-mail your CV, 1 letter of recommendation and a 1-2 page statement explaining your background and reasons for taking the course, to bocasresearchstation@gmail.com before January 30th, 2024.To be considered for a need-based fellowship, applicants should send a description of their need, their efforts to obtain funding from other available sources, and a travel budget. For further information, please visit:https://striresearch.si.edu/taxonomy-training/-course/biology-and-systematics-of-nemerteans/
Confusing Crustaceans: Peracarid Systematics, Collection and Preservation: The course is aimed at students, post-docs, or professionals who are interested in learning about identification, collection, evolution, preservation and data management for peracarid crustaceans. Peracarid diversity in tropical ecosystems is very high, second only to the Southern Ocean.

The students participating in this course will: - Learn to collect, identify, dissect and preserve peracarid crustaceans. - Learn general biological and ecological characteristics across the Peracarida. - Gain hands-on experience with collecting, identifying, preserving for morphology and biomolecules, identifying appropriate body parts for tissue sampling, and managing data from collection to specimen to sequence. - Establish connections with other researchers working on peracarids.

Application:Please e-mail your CV, 1 letter of recommendation and a 1-2 page statement explaining your background and reasons for taking the course, to bocasresearchstation@gmail.com before January 17th, 2024.To be considered for a need-based fellowship, applicants should send a description of their need, their efforts to obtain funding from other available sources, and a travel budget.. For further information, please visit:https://striresearch.si.edu/taxonomy-training/-course/biology-and-systematics-of-nemerteans/
Milton

Bocas Research Station <bocasresearchstation@gmail.com>

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

SouthAfrica ConservationCameraTraps Jun27-Jul8

African Field School on Design and Analysis of Camera Trap Studies

This is a 12-day active training course in the world renowned Garden Route, South Africa. Participants

will learn the principles of camera trapping for research and conservation science, including how to design, collect, and process camera trap data to answer ecological questions and obtain standardised reports. During the course participants will deploy camera traps in a Game Reserve and can spend their evenings and free time connecting with other camera trappers and researchers surrounded by the sounds of the Indian Ocean. The course is an official short learning programme offered by the Nelson Mandela University.

Details here: https://-wildecolabdotcom.wordpress.com/courses/ What We Will Cover - Camera trap models, functionality, and deployment considerations, a brief review of how camera traps have been used in the past and present for research and monitoring - How to organise camera trap surveys and data collection in the field with practice deploying camera traps in a game reserve - An introduction to R and its use in camera trap research, including an overview of image processing and various methods for the extraction of data from camera trap images, including overviews of machine learning models and image classification platforms - Exploration and organisation of camera trap datasets to create standardised reports - Study designs and data analysis for a wide range of wildlife monitoring strategies, research questions, and statistical models - Statistical analyses to estimate various ecological parameters (i.e., occupancy, abundance, density, activity rates) - Visualisation and interpretation of results from model outputs - Space to organize your own study or analyse your own camera trap data with the help of peers and course lecturers.

Dates 27 June - 8 July 2024 (arrival 26 June and departure 9 July)

Location Gourikwa Private Nature Reserve, Garden Route District, South Africa

Cost US$3000 - inclusive of course fees, accommodation, all meals. Early bird fee applies. If you register and pay before 31 January 2024 you get US$200 discount. Participants are responsible for their own travel arrangements to and from George Airport, South Africa.

Participants The course is limited to 20 participants and is open to graduate students and conservation professionals.

Deadlines Discounted early-bird registration is now open. Indicate your interest to attend here. Contact Dr Rob Davis if you have any enquiries s226043789@mandela.ac.za

Curriculum This course is designed to give participants a complete understanding of how to use camera traps for research and conservation management of wildlife, particularly terrestrial mammals. We will cover the most important theoretical and practical aspects of camera trapping, with an emphasis on ecological questions and monitoring. Modules range from a general introduction to camera traps and their increasing use in ecological research, to sampling design considerations and applying a suite of ecological modelling techniques to camera trap data. Instructors will teach common models that are put to widespread use in ecology and conservation biology and can be applied to a range of data types and research questions.

Format This intensive 12-day training course will take place in the stunning surroundings of the Garden Route, South Africa. As the course is based inside a Nature Reserve, participants are given the opportunity to study and gain field experience surrounded by African wildlife. Attendees will get the opportunity to deploy camera traps in a Game Reserve and spend their evenings and free time connecting with other camera trappers and researchers surrounded by the sounds of the African bush and Indian Ocean. Participants must bring their own laptop.

Lucie Thel <lucie.mc.thel@gmail.com>

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

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral

positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.