E v o l D i r

August 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

Helsinki EuroEvoDevo InvitationForSymposiumProposals

Dear all,

We are excited to announce the *9th meeting of the European Society for Evolutionary Developmental Biology* (EuroEvoDevo) scheduled for 25th - 28th June 2024 in Helsinki, Finland. More details will soon be available on our society's webpage (https://evodevo.eu) and the conference homepage (http://www.euroevodevo2024.fi/).

The EED Scientific Committee warmly *invites symposium proposals* for the Helsinki conference. We are committed to stimulating interdisciplinary dialogue and enhancing international collaboration. Therefore, we strongly encourage symposium proposals encompassing broad, integrative topics of potential interest to researchers from various fields such as developmental biology, genetics, paleontology, theoretical biology, ecology, genomics, comparative biology, all underpinned by an evolutionary focus. Symposium proposals that synergize animal and plant studies, with a particular emphasis on evolutionary mechanisms, are also highly encouraged. As part of our commitment to promoting new voices and diverse perspectives in our field, we also strongly encourage the submission of symposium proposals to those interested in exploring controversial or emergent topics.

In our ongoing commitment to promoting new perspectives and inclusive dialogue, we are particularly interested in receiving proposals from first-time applicants and early-career researchers (postdocs, junior PIs). Additionally, we are dedicated to promoting diversity, equity, and inclusion within our scientific community, and we strongly encourage proposals from researchers across various countries and diverse backgrounds.

Each symposium will accommodate four invited speakers, with a time allotment of 25 minutes for each speaker (20 minutes for presentation and 5 minutes for discussion). Please remember that speakers can only present in one symposium. To facilitate the selection process, *please follow this link* (https://elomake.helsinki.fi/-lomakkeet/124795/lomake.html), which will guide you to a submission forms submission page. The form will ask for the following details:

1. Title of Symposium. 2. Provisional List of Proposed Speakers. 3. Abstract Length Description of the Symposium, including a brief indication of each speaker's contribution. 4. Brief justification of why the symposium is appropriate for an EED meeting (e.g., timeliness, general interest, interdisciplinarity, integration of evo and devo) 5. Contact Information of all symposium organizers and additional details. 6. Indicate whether you intend to seek external financial support for your symposium (Please note that while we don't provide financial support for invited speakers, we strongly encourage symposium organizers to seek external support). 7. Feedback for the organizers

The deadline for symposium proposals is *30th September 2023*.

Our selection process is designed to be transparent and fair and is based on the criteria stated above and in the form. It is driven by our commitment to reflect the broad spectrum of interests and perspectives within our field and demonstrate a clear attempt to integrate Evolutionary and Developmental Biology.

We look forward to receiving your symposium suggestions!

Also, please feel free to contact me in case you have any questions (sylvie.retaux@cnrs.fr).

On behalf of the scientific committee,

Sylvie Rétaux, Program Officer EED

https://evodevo.eu/about-euro-evo-devo/ – <sylvie.retaux@cnrs.fr>

Euro Evo Devo 2024

European Evolutionary Developmental Biology society meeting

June 25 - 28, 2024 in Helsinki, Finland

http://www.euroevodevo2024.fi/ https://twitter.com/-EED2024 https://ecoevo.social/@EED2024 EED Society <eed.soc@gmail.com>

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Irvine California EvolutionaryMedicine Aug14-17

The registration deadline is approaching for the 8th annual meeting of the International Society for Evolution, Medicine and Public Health, August 14-17 at the Arnold and Mabel Beckman Center of the U.S. National Academies of Sciences and Engineering in Irvine, California. https://isemph.org/ISEMPH-2023 . This meeting is for researchers, students, clinicians, teachers and all who share an interest in using the principles of evolutionary biology to improve human health.

Program details are here: https://isemph.org/ISEMPH-2023-Program Register at this link. https://-isemph.org/event-4997652 Fees are refundable until July 31 if you change your plans. KEYNOTE, PLENARY AND PRIZE TALKS INCLUDE:

María Ãvila-Arcos on Ancient pathogen genomes and what they reveal about the colonization of Mexico.

James DeGregori on Clonal evolution and cancer - causes and consequences.

Joseph Graves, Jr. on Embedded racism: A critical yet neglected health determinant in evolutionary medicine.

Yana Kamberov on The genetic origins of the sweaty and naked ape.

Omenn Prize winner Jacob Palmer on The evolution of spectrum in antibiotics and bacteriocins.

Williams Prize co-winners, Alfonso Santos & Melissa Fritz on Experimental evolution to study the evolution of antibiotic resistance.

Michael Rose on evolution and preventing aging

Steven Frank on complexity, robustness, and evolution

Tallie Z. Baram on the influence of early-life experiences on brain

Katrine Whiteson on training phages to tackle antimicrobial resistant infections

ISEMPH 2023 will also offer hands-on workshops, symposia, and discussion rounds, an opportunity to visit the nearby University of California Irvine (UCI) by guided tours and a wonderful BBQ dinner!

All are welcome. See you all there!

Randolph Nesse <nesse@umich.edu>

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KewGardens UK PlantDiversity Oct11-13

Dear friends and colleagues of Kew,

We are delighted to announce that registration and abstract submissions are open for the international State of the World's Plants and Fungi Symposium taking place as a hybrid event at the Royal Botanic Gardens, Kew and online from 11 to 13 October 2023. We would be extremely grateful if you could please share details with relevant colleagues and networks.

Tackling the nature emergency: Evidence, gaps and priorities

Plants and fungi are the building blocks of our planet, with the potential to solve some of the greatest challenges facing humanity. However, the vital resources and services they provide depend on diverse, healthy ecosystems. The future of these ecosystems, and life as we know it, hinges on the decisions we make today.

The State of the World's Plants and Fungi Symposium accompanies the publication of a cutting-edge report that takes a deep dive into our current knowledge on plant and fungal diversity and distribution - what we know, what we don't know and where we need to focus our efforts.

This year's three-day symposium brings together ex-

perts to discuss findings presented in the report and to identify and motivate priority actions for protecting and restoring global plant and fungal diversity. The discussions will be used to create a declaration containing a shared agreement and action plan for where scientific institutions aim to focus their collecting and research efforts to achieve the targets of the Kunming-Montreal Global Biodiversity Framework.

Programme

The symposium is based around themed sessions in which invited experts will address topical questions through presentations and Q&A panel discussions:

Where are the diversity hotspots and critical knowledge gaps?

What do we know about extinction risk?

How do we accelerate our understanding of plant and fungal diversity?

How can we achieve global and national targets for biodiversity protection and restoration?

In-person attendees will also be able to participate in four workshops to contribute their ideas and expertise towards the development of the symposium declaration.

View the programme

View the programme

Register now for an early bird ticket

Discounted early bird tickets are available until 31 July. Full ticket pricing and information about travel bursaries can be found on the symposium web page.

Submit a poster abstract

Delegates attending the symposium in-person are invited to submit an abstract to present a poster and a one-minute oral presentation. Prizes will be awarded for the best early career researcher poster presentations.

Deadline for abstracts: 31 July 2023

Register now

Register now

We very much hope you can join us.

Best wishes,

Professor Alexandre Antonelli (he/him)

Director of Science

Royal Botanic Gardens, Kew

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Kew Science <email@enews.kew.org>

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MountainLakeBiologicalStation SEPEEG Sep22-24

Limited spots remain for the 2023 SEPEEG (South-Eastern Population Ecology and Evolutionary Genetics) Meeting at Mountain Lake Biological Station in Pembroke, VA, which will take place from September 22nd-24th. The scientific fields represented at the meeting are diverse and span evolution, ecology, genetics and behavior. The meeting provides a comfortable, engaging environment for formal and informal interactions between attendees.

Students who are members of the American Society of Naturalists can get a discounted rate, and undergraduate and graduate students who are interested in participating in a paired mentorship program can apply for a competitive award to reimburse the full cost of registration.

Abstract submission to be considered for a talk and/or for competitive funding assistance is August 1st.

For more information and to register please visit this website: https://mlbs.virginia.edu/SEPEEG-2023. Limited spots remain, so register soon!

SEPEEG 2023 Organizing Committee: Helen Murphy Josh Puzey Karen Barnard-Kubow Priscilla Erickson Mandy Gibson

Karen Barnard-Kubow, PhD James Madison University Dept. of Biology Bioscience 1028A

barnarkb@jmu.edu

"Barnard-Kubow, Karen Beth - barnarkb" <barnarkb@jmu.edu>

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MountainLakeBiologicalStn SEPEEG Sep22-24

The 50th annual SEPEEG conference is just less than 2 months away. We currently have 84 people registered, which means we have space for ˜20 more.

Our invited speakers include Emme Bruns from University of Maryland, Daniel Matute from University of North Carolina, and James Skelton from William and Mary. For more information, including an overview of the schedule and the link to register, visit the conference website: https://mlbs.virginia.edu/SEPEEG-2023 . As a reminder, if you are interested in giving a talk, please submit an abstract by August 1st (next Tuesday). Space for talks is limited, so please submit your abstracts on time.

We are also continuing a program that was started at the last SEPEEG conference where undergraduate and graduate students can apply for a competitive paired mentorship program, where undergrad students will be paired with a grad student mentor to help them navigate SEPEEG and help with their poster presentations. To apply for this program, you must submit an abstract by August 1st as well. Indicate your interest in applying for the program on the abstract submission form.

The link to the abstract submission for can be found on the SEPEEG conference website: https://mlbs.virginia.edu/SEPEEG-2023 . If you have any questions, please feel free to send me an email (barnarkb@jmu.edu) or reach out to any of the other conference organizers.

SEPEEG 2023 Organizing Committee: Karen Barnard-Kubow (James Madison University) Helen Murphy (William and Mary) Josh Puzey (William and Mary) Priscilla Erickson (University of Richmond) Mandy Gibson (University of Virginia)

Karen Barnard-Kubow, PhD James Madison University Dept. of Biology Bioscience 1028A

barnarkb@jmu.edu

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Online BiodiversityGenomics23 Oct2-6

Biodiversity Genomics 2023 Open | Online | Everywhere

We are very excited to announce that registration for Biodiversity Genomics 2023 is now open! Join us on 2-6 October by following the link: https://events.venueav.com/e/BG23_registration The link will allow you to: §Register to attend (open until and throughout the event) §Submit an abstract proposing a short talk for the event. Deadline: August 3

For the fourth year running, BG23 will be free and open to all. Every session will again be online, but for the first time we are also trialling local 'viewing parties'. Keep an eye out for more details soon. Share news of the event with all your friends and colleagues with an interest in biodiversity genomics. Most importantly, spread the word that registration is now open.

BG23 merchandise can be found here on our not-for-profit Spreadshop (https://bg23-biodiversity-genomics.myspreadshop.co.uk/)

Biodiversity Genomics Academy This year there will be an added dimension to Biodiversity Genomics - the Biodiversity Genomics Academy.

A frequent request in previous years has been "How do you DO that?". To meet this need we are asking researchers and teams who have developed bioinformatics tools and pipelines to present introductory workshops focused on their software.

Attendees will be able to discuss installation and operation of bioinformatics toolkits in real time with the developers, take part in introductory exercises and meet the community of scientists who are also using the tools, building a global community of practice in biodiversity genomics.

Watch out for further information and a sneak peek at the developer teams already signed up. If you are a tool developer and would like to participate in the BGAcademy, please contact Sujai Kumar at sk13@sanger.ac.uk without delay.

Mark Blaxter Tree of Life Wellcome Sanger Institute mb35@sanger.ac.uk

land with number 2742969, whose registered office is Wellcome Sanger Institute, Wellcome Genome Campus, Hinxton, CB10 1SA

Mark Blaxter <mb35@sanger.ac.uk>

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Online SMBE Meeting Registration Still Open

Dear All,

Registration for remote participation at the annual SMBE meeting (July 23-27, Ferrara, Italy) is still open (fee: 75 Euros,https://www.smbe2023.org/registration-and-fees).

Please, have a look at the program, which includes 232 talks, 1095 posters, and several parallel events (www.smbe2023.org).All talks and posters will be available in real time and for 12 months through the Gathertown virtual experience platform.

Two evening events, the "Masatoshi Nei event - Celebrating Nei's life and legacy" and the "Round Table: Why publishing a scientific paper is becoming so expensive?" will be also available for free at the You tube site https://www.youtube.com/channel/-UClr1tCA6M7qyHRJW25RrU5A . Best regards The Local Committee The SMBE Council

Giorgio BERTORELLE <ggb@unife.it>

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Online SMBE RegisterByJul18

Dear Collagues,

While on-site attendance registration has reached capacity, we would like you to know that a remote access registration option is still available for SMBE 2023 (fee is $75.00USD).

If you have not yet registered for SMBE 2023, please see the *congress website* at https://-www.smbe2023.org/ for additional information and there you will also find details on the remote access registration and the link to the registration portal.

If you are interested in attending, please register for remote access by July 18, 2023, so we can ensure you are provided remote access details in time.

Best Regards,

SMBE Business Office 2023 LOC SMBE Council #SMBE2023

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

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Online SORTEE Oct17-18

The conference of the Society for Open, Reliable, and Transparent Ecology and Evolutionary biology will run continuously from 17 October 0700 UTC to 18 October 0830 UTC, in order to cover all timezones.

REGISTRATION IS NOW OPEN

More info about the conference (including the preliminary Schedule) here: https://www.sortee.org/-upcoming/ The conference is FREE for SORTEE members.

To become a member: https://www.sortee.org/join/ (SORTEE membership fees range from $10 and $40 depending on career stage and also have a free option, no questions asked)

More info about the conference (including the preliminary Schedule) here: https://www.sortee.org/-upcoming/ Do not hesitate to contact us at conf.sortee@gmail.com

The SORTEE Conference Committee

https://www.sortee.org/ Matthieu Paquet <matthieu.paquet@outlook.com>

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Switzerland Ectomycoadapt Sep5-6

Title: Symposium.Ectomycoadapt.Switzerland.5-6.Sept.2023

Dear All,

We are happy to announce the programme of our symposium focusing on Population and Landscape Genomics of Ectomycorrhizal Fungi. https://www.wsl.ch/-en/a-propos-du-wsl/dialoguer-avec-le-wsl/details/-symposium-on-population-and-landscape-genomics-of-ectomycorrhizal-fungi.html As a reminder, this two-day symposium will be held at WSL on 5-6 September 2023. We offer a hybrid event (in-person or virtual attendance) for those who are unable to join us in person at WSL.

Registration is still open here until early August https://conf.wsl.ch/EctoMycoAdapt_2023/ More information is available on the symposium website: https://www.wsl.ch/en/about-wsl/in-dialogue-with-wsl/details/symposium-on-population-and-landscape-genomics-of-ectomycorrhizal-fungi.html Please share this announcement with anyone who may be interested. Do not hesitate to contact us if you have any questions about the symposium or technical problems registering.

We look forward to seeing you at WSL and to discussing this emerging research field.

Benjamin Dauphin Martina Peter

ectomycoadapt@wsl.ch

Benjamin Dauphin Swiss Federal Research Institute WSL Research Unit Biodiversity and Conservation Biology Ecological Genetics group Zï¿½rcherstrasse 111 CH-8903 Birmensdorf Switzerland

Benjamin Dauphin <benjamin.dauphin@wsl.ch>

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Tartu Estonia GeneForum2023 Aug24-25

Dear Colleagues,

The annual Gene Forum conference will take place on 24th to 25th August 2023 in Tartu, Estonia. This meeting features presentations from 20 prominent scientists from Europe and the USA to discuss advances in the field of genetics.

This year, we focus on the topics of: Personalized medicine session Pharmacogenomics Genomics of monogenic disorders Microbiome Single cell omics Mental health Population genomics

See the full program at geneforum.ee/programme/

As last year, the conference can also be followed virtually via Zoom, but we strongly urge you to join us the Estonian National Museum, Tartu, Estonia. Please register at https://geneforum.ee/registration/ Dr Anders ErikssonAssociate Professor of Interdisciplinary Research in Genomics Center for Genomics, Evolution and Medicine (cGEM) Institute of Genomics, University of Tartu

Anders Eriksson <aeriksson75@gmail.com>

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UOxford InvertebrateBiogeography Sep26-27

Registration and abstract submission for the Invertebrate Biogeography Conference on September 26-27, 2023 at University of Oxford, UK is now available at https://www.eventbrite.co.uk/e/invertebrate-biogeography-conference-tickets-617008327517 26 Sep: Talks including the keynotes speakers Mark Lomolino (SUNY College of Environmental Science and Forestry) and Rosemary Gillespie (University of California, Berkeley).

27 Sep: Workshops discussing the future roles of collections (hosted by Scott Miller, Smithsonian Institution), molecular applications and invertebrate conservation.

Registration deadline: August 1 *FINAL CALL FOR ABSTRACTS AND REGISTRATION*

Accommodation is available at Jesus College, Oxford for a discounted price. Any questions should be directed to: Tim.Coulson@biology.ox.ac.uk, Bryony.Blades@biology.ox.ac.uk or Tabitha.Taberer@biology.ox.ac.uk.

This conference is hosted by the African Natural

History Research Trust (ANHRT) and University of Oxford. ANHRT conference page weblink: https://anhrt.org.uk/african-natural-history-research-trust-news/conference tabitha.taberer@jesus.ox.ac.uk

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GradStudentPositions

AarhusU EvolutionSexChromosomes

Evolution of primate X and Y chromosomes using comparative genomics and single-cell transcriptomics

PhD position in the group of Mikkel Heide Schierup at the Bioinformatics Research Centre at Aarhus University, Denmark. Can be 3-5 years depending on whether the applicant holds a BSc or MSc degree. Keywords: primates, sex chromosomes, population genetics, scRNA and speciation.

The application deadline August 1, 2023 through the following link that also contains the full description

https://phd.nat.au.dk/for-applicants/open-calls/august-2023/evolution-of-primate-x-and-y-chromosomes-using-comparative-genomics-and-single-cell-transcriptomics Mikkel HeideSchierup Novo Nordisk Distinguished Investigator Bioinformatics Research Centre, Aarhus University, Universitetsbyen 81, building 1872 8000 Aarhus C Denmark Ph: +4527782889 Email:mheide@birc.au.dk

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

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AdamMickiewiczU HumanSexualSelection

Graduate position: Adam Mickiewicz University, PhD position, sexual selection in humans

One Ph.D. candidate position is now available to work on mechanisms and evolution of post-copulatory mate choice in humans, in a new research group in the Institute of Human Biology and Evolution at Adam Mickiewicz University in Poznañ, Poland. The position is part of a project funded by Polish National Science Centre. The project will test the role of immunocompetence of a male in cryptic female choice on the gamete level, in order to shade a light on post copulatory sexual selection in humans. The main aim of the project is to investigate how the male condition, measured as the ability to recognize pathogens, affects sperm performance, in the post-mating context in humans.

The Ph.D. candidate will use methods from experimental and evolutionary biology, molecular biology and computational genomics (phenotypic assays, wet-lab, MinION Nanopore sequencing).

We seek a collogue with solid knowledge in the principles of molecular and evolutionary biology, basic knowledge of genomics/transcriptomics, statistics, keen to work in a team and highly self-motivated. Applicant with M.Sc. degree in biology, biotechnology or related fields and expertise in basic molecular methods such as DNA/RNA extraction, protein isolation, PCR, western blot, etc. are encouraged to apply. There is opportunity to learn new skills by participation in dedicated training courses on subjects related to the project and short research visits to institutions involved with the project.

The position is full-time and available for 36 months starting from October 2023. Salary: 5000PLN/month (after taxes ~4500PLN)

You will join a recently started research group led by Aleksandra ukasiewicz. The application should include i.e. professional CV including scientific achievements, cover letter summarizing previous work experience and future interests, contact information for one or two professional references, and be addressed to dr Aleksandra ukasiewicz, a.lukasiewicz@amu.edu.pl

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

Application deadline: 31.08.2023

Candidates will be selected through an open competition, the competition will be open until a suitable candidate is found who meets all the requirements

Any questions? Do not hesitate to contact via email: a.lukasiewicz@amu.edu.pl

Aleksandra ukasiewicz <aleks.lukasiewicz@gmail.com>

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AustralianNatlU ConservationGenomics

This project will suit a student with an interest in conservation genetics, molecular biology and bioinformatics

The Lord Howe Island stick insect, thought to be extinct but recently rediscovered, has become emblematic of the dangers faced by island species in the face of anthropogenic change. A planned reintroduction effort aims to rescue this species, one of the rarest insects in the world, from the brink of extinction. Our aims are to explore the unique genome biology of this insect, and use it as a model for adaptation to captivity and to the post-release environment. Our project recently funded for three years, and will build on the recent development of numerous genomic resources, such as a high-quality genome assembly. The project will combine cutting-edge molecular techniques and innovative approaches to genotyping of unusual material (historical and non-destructively sampled in the field) with the analysis of next-generation sequencing data. This project will blend fundamental science investigating genome evolution with research outcomes that will directly contribute to ongoing conservation efforts. Thus, skills obtained during this degree will be relevant to academia, as well as the conservation sector, including government and NGOs.

Suitable applicants need to be highly motivated with a strong academic and research background. Demonstrated ability to conduct independent research is re-

quired, with experience in programming or data analysis being desirable. Applicants should hold first-class honours or equivalent experience, such as a first-author publication in an international journal. The successful student will need to apply to ANU for enrollment, for international applicants ideally by this year's August 31 deadline. The successful applicant will receive a stipend scholarship and research funds, including computer and travel funding.

Location: We will be based in the Division of Ecology and Evolution at the Research School of Biology at the Australian National University in Canberra, Australia. The project will also be supported by Zoos Victoria, who hold a large captive population of the LHI stick insects at Melbourne Zoo, and are closely involved with the recovery effort on Lord Howe Island. Field work on Lord Howe Island is also likely to be involved.

Expression of interest: Expressions of interest should be submitted directly to Alexander.Mikheyev@anu.edu.au. International applicants should contact me by July 28, 2023, though the earlier the better so that we can coordinate the ANU application due on August 31th. Please include a brief statement on why you are interested in this project, a CV.— Following assessment of applications one applicant will then be invited to formally apply to the ANU (a formality). The successful applicant will be able to start as soon as possible. You can also find out more information about the graduate program by clicking on the "Higher Degree by Research" tab at http://biology.anu.edu.au/education/degree-programs
Sasha Mikheyev <alexander.mikheyev@anu.edu.au>

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Berlin EvolutionAgeingInDaphnia

Project: "Ageing trajectories in clonal Daphnia and Amazon mollymazon molly" (36 months)

As part of a collaborative project on Resilient Ageing, we are inviting applications for a doctoral student position starting early autumn 2023 with a duration of 36 months. The doctoral project centres on using clonal model organisms to study ageing under benign and stressed (warming) conditions. You will use the water flea Daphnia (crustacean zooplankton) and the Amazon molly (Poecilia formosa, a clonal fish) as model systems and carry out experiments to quantify ageing trajectories under common-garden conditions. You will test the impact of genotype and warming on ageing. More specifically, in Daphnia you will contrast genotypes from urban and rural populations for their "pace-of-life" and associated ageing phenotypes under ambient and warming conditions. In the Amazon molly, you will compare genetic lineages with different behavioural types (i.e., bold vs. shy) for their ageing trajectories under ambient and warming conditions. While your research will in the first place be focused on phenotypic characterization, you will also collaborate in a molecular characterization of genomic pathways underlying resilient and early ageing, linking molecular pathways to phenotypes. In the Daphnia system, you will also be offered the possibility to manipulate microbiome composition through microbiome transplant experiments to study the impact of microbiome features on ageing. The project focuses on experimental work and collaborative efforts with teams at other Leibniz institutes in the context of a Leibniz Association Research Alliance on "Resilient Ageing". The position is located at IGB in Berlin < https://www.igb-berlin.de/en >, at the department "Evolutionary and Integrative Ecology" < https://www.igb-berlin.de/en/-dept-5-evolutionary-and-integrative-ecology >.

Your tasks

* Designing and performing experiments on ageing with both the water flea Daphnia and the Amazon molly * Carrying out common-garden experiments monitoring life trajectories of specific populations in the absence and presence of warming * Isolation and preparing samples for transcriptomics and proteomics * Statistical analyses of life-history traits and ageing trajectories * Publication of results in scientific journals and presentation at conferences * Developing and finalizing a doctoral dissertation

Your profile

* MSc or equivalent in Biology or related field * Strong engagement for experimental work; demonstrated experience with experimental work is a bonus * Strong statistics skills, preferentially in R * Strong conceptual skills and high interest in eco-evolutionary interactions, life history and behavioral analyses * Collaborative team worker * Good communication skills in English, including scientific writing

Our offer

We offer an exciting position in an international and dynamic team of researchers, and an attractive scientific working environment including excellent equipment and technical support. We foster flat hierarchies and active participation and offer a variety of < https://www.igb-berlin.de/en/doctoral-education >

training opportunities < https://www.igb-berlin.de/-en/doctoral-education >. We actively support the < https://www.igb-berlin.de/en/equal-opportunities > reconciliation of work and family life < https://www.igb-berlin.de/en/equal-opportunities >. Qualified women are particularly encouraged to apply. The IGB is < https://www.fv-berlin.de/en/careers/diversity > committed to diversity < https://www.fv-berlin.de/en/-careers/diversity >. We welcome every application, regardless of gender and gender identity, origin, nationality, religion, belief, health and physical disabilities, age or sexual orientation. Disabled applicants with equal qualification and aptitude will be given preferential consideration. This is a position with 3 years duration and a tentative start date of 15.10.2023 (or shortly thereafter). Salary is paid according to the German salary scheme for the public sector for doctoral research (65% TVöD). The working language at IGB is English. Are you interested? We look forward to receiving your application (letter of motivation indicating research interests and experience, CV, certificates, contact information of two

— / —

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

CRG Barcelona GenotypePhenotypeEvolution

I am writing to advertise aPhD positionon computational models of genotype-phenotype maps and evolution. The position is at the Centre for Genomic Regulation (CRG) in Barcelona, and the successful candidate will work at the Barcelona Collaboratorium for Modelling and Predictive Biology, a new space for computational and theoretical biology launched as a joint initiative of two leading life science institutes - the CRG and EMBL Barcelona.

Information on the position and how to apply can be found at: https://recruitment.crg.eu/content/jobs/-position/phd-student-computational-models-genotype-phenotype-maps-and-evolution Nora Martin

Nora Martin <nora.martin@crg.eu>

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Grenoble France BacterialComputationalEvol

Funded PhD position in Bacterial and Computational Evolution

Link to the full advertisement: https://perso.crans.org/-frenoy/Frenoy_position_2023.html I am looking for a PhD student or a postdoc to work on projects related to bacterial evolution using computational methods (models and simulations, data analysis, artificial intelligence). See https://perso.crans.org/frenoy/-Frenoy_position_2023.html for possible projects.

Location: Grenoble, France

Starting date: December 2023

Supervision: [Antoine Frenoy](https://-perso.crans.org/frenoy/), Asst. Prof. in evolutionary biology and computer science

Salary: following the university salary grids > 00 euros before taxes

Duration: 1-3 years

Antoine Frenoy <antoine.frenoy@univ-grenoble-alpes.fr>

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HongKongU Two EvolPopGenomics AvianBehaviour

*** PhD Positions in Evolutionary Genomics or Population Genomics ***

We are looking for highly motivated candidates for PhD positions to work on evolutionary genomics or population genomics. A key focus of this project is to understand genotype-phenotype association, and the selective forces that shape genetic and phenotypic variation. The PhD will have extensive opportunities to interact with other lab members and collaborators and involve in different genomics projects.

Duration: This is a four-year full-time PhD position.

Start Date: 2024.

Qualifications and requirement: - BSc/MPhil degree in biology or related fields (or will have completed a BSc/MPhil before the position start); - High motivation and strong interest for genomics and evolutionary biology; - Proficiency in English; - Background in genomics, bioinformatics, evolutionary biology, molecular genetics, or related disciplines is desirable; - Willingness to learn new skills in bioinformatics, molecular lab work, etc.

Study Environment: The University of Hong Kong is an English-speaking institute and one of the most international universities in Asia. It has a rank of 31 according to the Times Higher Education World University Rankings 2023.

A Postgraduate Scholarship will be offered, in addition to annual leave and medical benefits

How to apply: Please send (1) a CV (including a list of publications), (2) motivation letter describing research interests and skills, (3) transcripts, and (4) contact details for 2-3 references to Dr. Simon Sin (sinyw@hku.hk). Review of applications will begin immediately and continue until the position is filled.

Simon Sin Assistant Professor School of Biological Sciences Kadoorie Biological Sciences Building The University of Hong Kong Pok Fu Lam Road, Hong Kong Lab website: www.simonywsin.com <sinyw@hku.hk>

*** PhD Positions in Bird Cognition, Intelligence, and Behaviour ***

We are looking for highly motivated candidates for PhD positions to work on bird cognition, intelligence, senses and communication. A key focus of this project is to understand how birds use different senses to communicate and respond to stimuli, and how their mental capacities help them to survive and reproduce. The lab has established a study system and is routinely conducting animal behaviour experiment. The PhD will have extensive opportunities to interact with other lab members and collaborators and involve in different projects.

Duration: This is a four-year full-time PhD position.

Start Date: 2024.

Qualifications and requirement: - BSc/MPhil degree in biology or related fields (or will have completed a BSc/MPhil before the position start); - High motivation and strong interest for animal behaviour and evolutionary biology; - Proficiency in English; - Background in animal behaviour, molecular ecology, behavioural ecology, evolutionary biology, chemical analysis, bioinformatics, or related disciplines is desirable; - Willingness to learn new skills in chemical analysis, molecular lab work, etc.

Study Environment: The University of Hong Kong is an English-speaking institute and one of the most international universities in Asia. It has a rank of 31 according to the Times Higher Education World University Rankings 2023.

A Postgraduate Scholarship will be offered, in addition to annual leave and medical benefits

How to apply: Please send (1) a CV (including a list of publications), (2) motivation letter describing research interests and skills, (3) transcripts, and (4) contact details for 2-3 references to Dr. Simon Sin (sinyw@hku.hk). Review of applications will begin immediately and continue until the position is filled.

Simon Sin Assistant Professor School of Biological Sciences Kadoorie Biological Sciences Building The University of Hong Kong Pok Fu Lam Road, Hong Kong Lab website: www.simonywsin.com <sinyw@hku.hk>

Yung Wa Sin <sinyw@hku.hk>

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KU Leuven EvolModellingMutationalRobustness

PHD POSITION IN EVOLUTIONARY MODELLING OF MUTATIONAL ROBUSTNESS AT KU LEUVEN (BELGIUM)

PROJECT

We offer a PhD position on modelling the evolutionary impact of mutational robustness under the supervision of Prof. Piet van den Berg at the University of Leuven (Belgium). The PhD project is part of a larger project entitled “Mutational Robustness and Evolvability in Model Microbes”, which is conducted in close collaboration with the world-class experimental labs of Profs. Jan Michiels, Kevin Verstrepen, and Sander Govers. This larger project will conduct the most extensive investigation to date into the mechanisms that can reduce the effects of mutations in two model species (E. coli and S. cerevisiae). The role of this specific PhD project is to develop evolutionary models to gain a deeper understanding of the evolutionary impact of these mechanisms. This will consist both in developing a basic evolutionary modelling framework to answer the most important questions and in collaborating closely with the involved

empirical scientists to tune the models to the empirical goals and outcomes. As such, this project has a large potential for considerable scientific impact.

The most important research questions of this project include (but are not limited to): - Depending on the distribution of mutational effects, to what extent is mutational robustness selected? - How does this depend on the speed and predictability of environmental change? - How do different (fixed) degrees of buffering affect future adaptation (i.e., evolvability), depending on the structure of environmental change? - What if the degree of buffering is responsive to environmental change?

The position is relatively flexible - the course of the project can to a reasonable extent be adapted to the interests and background of the candidate.

POSITIONING WITHIN KU LEUVEN

The student will work in the Evolutionary Modelling Group, which is is a research group that works on computational and mathematical models of evolutionary processes across a wide variety of systems and research questions. The group is cross-departmental, housed both in the Biology Department and the Department of Microbial and Molecular systems at KU Leuven. We have a very broad focus, developing collaborations with evolutionary researchers in both departments (and beyond) on a variety of topics. Our interests include (but are not limited to) the evolution of social behaviour (from microbes to humans), the different ways that evolution can produce adaptations to change and uncertainty (genetic adaptation, plasticity, bet hedging, evolvability), and coevolutionary dynamics (within and between species). We do mostly theoretical work, which consists mainly of mathematical modelling and evolutionary simulation studies. Our modelling approach is characterized by a careful navigation between under- and over modelling, trying to aim for models that are not too abstract to be informative about the real processes, but also not too detailed so their behaviour becomes difficult to interpret and too dependent on many specific assumptions. This PhD project is part of a larger project in collaboration with three other research groups across the same two departments (led by Profs. Jan Michiels, Kevin Verstrepen and Sander Govers), and will therefore be strongly embedded within KU Leuven and offer plenty of opportunity for close collaboration with world-class experimental groups.

ABOUT KU LEUVEN

The University of Leuven is a top institution, ranked as the 3rd university in the European Union (Times Higher Education ranking) and the 1st in Europe in Reuters' ranking of the most innovative universities. Leuven is a relatively small town boasting a vibrant student scene (almost 58,000 students of which around 10,000 international), has an attractive city centre and many events year-round. Leuven is located 20 minutes by train from Brussels and only 15 minutes from Brussels international airport, which has many international connections. In addition, Brussels is exceptionally well connected to other European hubs by train, with direct connections to Paris (1 hour 20 minutes), Amsterdam (1 hour 50 minutes), London (2 hours), and Frankfurt (3 hours).

PROFILE

* MSc in Biology or a related field * Experience with theoretical modelling (computational and/or mathematical * Capacity for creative and critical thinking and strong motivation to work on evolutionary questions * Ability to work independently and collaboratively?

OFFER

* Full time position, Standard Belgian PhD salary (for details, see https://www.kuleuven.be/personeel/jobsite/en/phd/phd-information#working-conditions) * Stimulating international and collaborative research environment at a top institute * Start date: flexible,but the position can be filled from Oct 2023

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MartinLutherU TemperatureAdaptation

PhD Position in Animal Evolution at Martin-Luther University Halle-Wittenberg

Application deadline 31.07.2023

The Institute for Zoology at the Martin-Luther University Halle-Wittenberg has advertised a PhD position in Animal Evolution.

For details please follow this link (https://personal.verwaltung.uni-halle.de/jobs/wissmi/) to the advertisement with number: Reg.- Nr. 5-5134/23-H.

Starting date is as soon as possible.

The position is restricted to 3 years.

Project Description:

This project will deal with questions related to how temperature affects animal reproduction. To approach these questions the PhD candidate will first extract published data and collect it into a database that needs to be set up first. Based on this the candidate will explore questions with a comparative approach. Thus the ideal candidate should have a good statistical background and some experience programming. Overall an interest in handling data in this context and working mostly theoretical is of benefit. This main focus of the project though can be combined with experimental work as there is some scope to shape the project and explore diverse ideas within this framework.

Research environment

The position is within the Animal Ecology group led by Claudia Fricke (https://www.zoologie.uni-halle.de/-tieroekologie/mitarbeiter_innen/) and we are broadly interested in evolutionary ecological questions relating to animal reproduction working mainly with Drosophila melanogaster.

Your Qualifications:

We are looking for a dynamic, creative and collaborative person with an interest in building up a database and exploring it via meta-analyses. Graduate students with a MSc degree or Diplom in Biology or Zoology can apply. Good statistical skills would be beneficial plus a good mastery of English, both written and spoken.

For questions please contact Claudia Fricke (Claudia.Fricke@zoologie.uni-halle.de) and send your application with the usual documents in one pdf file to the same address.

Claudia Fricke

Prof. Dr. Claudia Fricke Institute for Zoologie/ Animal Ecology Martin-Luther-University Halle-Wittenberg Hoher Weg 8, 06120 Halle (Saale) e-mail: Claudia.Fricke@zoologie.uni-halle.de phone: +49-345-55 26305 web: https://www.zoologie.uni-halle.de/-tieroekologie/ Special topic network Thermal Fertility Limits: https://thermal-fertility-network-eseb.com/ Claudia Fricke <claudia.fricke@zoologie.uni-halle.de>

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MaxPlanck HostMicrobeSymbiosis

POSITION: Ph.D. position in the Mutualisms Research Group at the Max Planck Institute for Biology, Tübingen, Germany.

POSITION DESCRIPTION: This graduate position is funded by the Max Planck Society and the German Research Foundation and will address regulation and proliferation of an obligate insect-bacterial partnership. The successful candidate will combine experimental manipulation and comparative transcriptomics with RNAi to study the metabolic interactions of a co-adapted symbiosis. While the envisioned project is contextualized through our prior work on streamlined symbioses in beetles (see Selected Publications below), there will be opportunities for the candidate to develop complementary research directions, and to be involved in mentoring undergraduate students. The successful candidate will join an active lab of undergraduates, graduate students, technical assistants, and postdocs, focused on the molecular evolution and chemical ecology of species interactions. Support is initially available for three years, subject to satisfactory evaluation at the end of year one. Remuneration is in accordance with the TVöD (German public service salary scale, 65% E-13). The Max Planck Campus in Tübingen is a leading research hub with world-class genomics, mass spectrometry, NMR spectroscopy, X-ray crystallography, and microscopy facilities. English is the working language.

Additional information about the lab and institute can be found here: www.mutualisms.net ; www.bio.mpg.de

QUALIFICATIONS: - B.S./M.S. in Evolutionary biology, microbiology, biochemistry, or a related field. - Strong interest in symbiosis, host-microbe interactions, or coevolution. - Willingness to join and contribute to an international research team.

SCIENTIFIC DESCRIPTION & EXPERIENCE (Any of the following): The ideal candidate is comfortable with (or is keen to acquire) a range of molecular techniques and is familiarwith sequencing and analysis methods. Experimental biochemistry, proteomics, microscopy, transcriptomics, and insect rearing are additional areas of interest, as is RNAi. Comfort with computational platforms is strongly encouraged.

TO APPLY: Applicants should submit (1) a cover letter that addresses their qualifications and experience and

include a statement on how their research interests align with prior work by our group, (2) a curriculum vitae, (3) and the names and contact information of three references. Please submit your application as a single pdf file.

Please send your application to: Dr. Hassan Salem (hassan.salem@tue.mpg.de) Max Planck Institute for Biology Mutualisms Research Group D-72076 Tuebingen www.mutualisms.net Review of applications will begin July 31st and the position will remain open until filled.

Selected Publications:

1. Berasategui, A., Breitenbach, N., García-Lozano, M., Pons, I., Sailer, B., Lanz, C., Rodríguez, V., Hipp, K., Ziemert, N., Windsor, D., et al. (2022). The leaf beetle Chelymorpha alternans propagates a plant pathogen in exchange for pupal protection. Curr. Biol. 32, 4114-4127.e6.

2. Pons, I., González Porras, M.Ã., Breitenbach, N., Berger, J., Hipp, K., and Salem, H. (2022). For the road: calibrated maternal investment in light of extracellular symbiont transmission. Proc. Biol. Sci. 289, 20220386.

3. Salem, H., Kirsch, R., Pauchet, Y., Berasategui, A., Fukumori, K., Moriyama, M., Cripps, M., Windsor, D., Fukatsu, T., and Gerardo, N.M. (2020). Symbiont digestive range reflects host plant breadth in herbivorous beetles. Curr. Biol. 30, 2875-2886.e4.

4. Salem, H., Bauer, E., Kirsch, R., Berasategui, A., Cripps, M., Weiss, B., Koga, R., Fukumori, K., Vogel, H., Fukatsu, T., et al. (2017). Drastic genome reduction in an herbivore's pectinolytic symbiont. Cell 171, 1520-1531.e13.

Dr. Hassan Salem Max Planck Research Group Leader Mutualisms Research Group Max Planck Institute for Biology Tübingen, Germany 72076 Email: hassan.salem@tuebingen.mpg.de Tel.:+49-7071-601-1367 Website: www.mutualisms.net Hassan Salem <hassan.salem@tuebingen.mpg.de>

Melbourne DrosophilaThermalTolerance Evolution

PhD project Thermal tolerance evolution in Drosophila

We are seeking a highly motivated and passionate student in evolutionary biology interested in studying thermal tolerance evolution in Drosophila. The project details are open for discussion but would loosely be framed around the evolution of thermal plasticity and/or how inter-specific competition shapes the evolution of thermal tolerance.

Preferred candidates will have experience in evolution, ecology and thermal physiology, although experience in these areas is not necessary. The project will involve a combination of fieldwork and lab-based experiments. There will be opportunities for the successful applicant to pursue their own scientific ideas within the aims of the project. The successful candidates will be supervised by Dr Vanessa Kellermann and Dr Belinda van Heerwaarden (The University of Melbourne) and will be based at La Trobe University's Department of Environment and Genetics.—

The successful applicant will be awarded a scholarship that covers salary (current rate is $33,500 AUD tax-free per year) and a waiver of student fees. International students are welcome to apply.

Interested applicants should submit a CV, a copy of their academic transcript and a cover letter outlining their research interests to——v.kellermann@latrobe.edu.au.

La Trobe University | TEQSA PRV12132 - Australian University | CRICOS Provider 00115M

Vanessa Kellermann <V.Kellermann@latrobe.edu.au>

MontanaStateU AvianConservationGenomics

I am recruiting 1-2 M.S. students to join my lab in the Department of Ecology at Montana State University in

January 2024. While specific projects will depend on individual interests and career goals, students can expect to participate in research on the conservation and population genomics of birds in Western North America and / or the tropical Pacific. Research aims include describing genomic variation across species ranges, identifying patterns of dispersal in complex landscapes, and inferring how populations have responded to habitat loss, invasive species, and historical climate change. Students will be supported by Graduate Research Assistantships (GRAs), which provide a stipend of $2,200 per month for two years, a tuition waiver for up to 6 credits each semester, and health insurance. Helpful qualifications include an academic background in ecology and evolution, strong writing and quantitative skills, and field experience with birds or other animals. I also value curiosity, perseverance, logistical abilities, and attention to detail. However, graduate school is a training opportunity, and I encourage motivated candidates to apply regardless of their specific preparation.

I am a new faculty member and first-year professor broadly interested in the forces that shape genetic variation in birds, and their implications for conservation. Work in my lab (https://elinck.org/) touches on many subfields of evolutionary biology and ecology, and members will develop skills in field ornithology, bioinformatics, statistics, programming, and scientific writing. I aim to cultivate a lab culture and scientific practice that is equitable and welcoming of diversity in all its dimensions, including class, gender identity and sexual orientation, race and ethnicity, and life experience. Montana is home to 12 Tribal Nations, and I am particularly committed to providing opportunities to Indigenous students. Montana State University is located in the vibrant small city of Bozeman, on the northern edge of the Greater Yellowstone Ecosystem. Bozeman is known for its beautiful natural setting and access to outdoor recreation, its live music, and a food and drink scene that punches above its weight.

To apply, email a short cover letter, a CV, and contact information for three references to me at ethanblinck@gmail.com. Your cover letter should include your motivations for pursuing a graduate degree, a description of your academic / professional background, and some discussion of the scientific questions that excite you. Please don't hesitate to reach out if you have questions about the position, application process, or life in Montana. Applications will be reviewed on a rolling basis, with a final deadline of 1 October 2023. I'll reach out to all candidates with decisions later that week.

Ethan Linck, Ph.D. Senior Research Scientist, Carling Lab *Department of Zoology & Physiology* *University of Wyoming* > https://elinck.org/ Ethan Linck <ethanblinck@gmail.com>

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OregonStateU EvolutionaryBiology

The Kikuchi lab at Oregon State University is recruiting PhD students for the Fall 2024 term. We're excited by questions like "how does an animal that is faced with bewildering amounts of information evolve to nevertheless make adaptive decisions?" and "how do animals' decisions feed back onto ecology and evolution?" We study birds, snakes, and sometimes bees or butterflies to ask about consumer-resource interactions, the evolution of warning signals and antipredator defenses, social information, and behavioral innovations. Students interested in experimental or theoretical work are welcome to apply.

OSU is an R1 institution in Corvallis, Oregon, in the heart of the Willamette Valley. Outstanding outdoors life, farmers' markets, and vineyards abound. The Department of Integrative Biology guarantees five years of support for PhD students, and sponsors international visas. IB is a fantastic group of 40 faculty and over 60 graduate students who are equally passionate about research and pedagogy. OSU and IB are diverse communities committed to fostering a safe, open, equitable, and inclusive environment. Come join us! e-david.kikuchi@oregonstate.edu

David Kikuchi he/him Assistant Professor Department of Integrative Biology Oregon State University davidwkikuchi.weebly.com

"Kikuchi, David W" <david.kikuchi@oregonstate.edu>

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Oulu Finland RecombinationRateEvolution

We are looking for highly motivated Doctoral Researcher to work on project "Why, where and how: understanding the evolution of recombination rate variation".

The research will be conducted at the Ecology and Genetics Research Unit, University of Oulu, Finland. The unit has a strong research focus on population and evolutionary genomics, which provides a high-quality research environment. The PhD candidate will join the University of Oulu Graduate School (UniOGS), which provides the framework and conditions for high-quality, research-driven doctoral training.

Brief description of the project and position: This project aims to understand intra- and inter-species variation in recombination rate and its evolutionary drivers in wild bird populations. First, we will use long-term population and pedigree data to assess the heritability and genetic basis of recombination rate in the great reed warbler (Acrocephalus arundinaceus). For this, we will use the ???animal model??? framework, QTL mapping methods and genome-wide association studies (GWAS). We will then proceed to estimate the fitness effects of individual-level recombination, with a focus on variation between sexes and its consequences. This will be one of the first studies to evaluate the fitness effects of recombination rates in wild populations. Second, we will investigate inter-species variation using genome sequencing data to create new pedigree data sets from up to 11 bird species to study the evolutionary processes and genetic regulation underlying recombination rate variation. This project will improve our understanding of the patterns of genetic variation in birds and how vertebrate genomes can adapt and evolve.

The successful candidate will conduct molecular lab work with DNA samples and perform bioinformatic, phylogenomic, and statistical analyses, in collaboration with our research team. The doctoral researcher is expected to present the results at international scientific conferences and publish the research in open-access high-impact journals and advance their doctoral studies. As the project includes a wide range of scientific methods the student will develop broad analytical skills to continue research in evolutionary and population genetics. While based at the University of Oulu, the successful candidate will work in close collaboration with an international research team, including collaborators from Lund and Edinburgh Universities. Due to this collaboration, the project includes research visits (duration between 2 and 5 months) to the Institute of Evolutionary Biology at the University of Edinburgh and the Molecular Ecology and Evolution Lab at Lund University.

What we offer: - Ambitious and exciting research project and study system - Highly enthusiastic and international researcher team and mentoring - Wellness benefit ePassi covering sport, culture and well-being. - Work that matters and a workplace that promotes flexibility and work- life balance. - The successful candidate will also receive benefits provided by the Finnish government to residents, for example, the possibility to obtain access to the national healthcare system, tax benefits for employees with children, and high-quality affordable childcare services.

What we expect from you: - Master's degree in Biology (evolutionary biology, population genetics, genetics) - Excellent knowledge of population genetics and statistics - Experience in molecular lab work with DNA samples - Experience using the R language for statistical computing - Skills in bioinformatics and analyzing whole-genome sequencing data - Fluent in written and spoken English - High motivation and the ability to work efficiently both in a team and independently

The position is fixed-term for 4 years as of 1st of September 2023 or as soon as possible thereafter. The salary will be based on levels 2 ??? 4 of the demand level chart for teaching and research staff of Finnish universities. Starting gross salary will be approx. 2300-2600 ??? per month (before taxes). A trial period of 6 months is applied in the position.

Apply through our recruitment system by 15th of August 2023 (23:59 Finnish local time): https://-oulunyliopisto.varbi.com/en/what:job/jobID:644535/ The application should be written in English and include the following: - Cover letter (describing experience relevant to this position, research interests, motivation, general career goals and why this position is of interest to you) - Curriculum Vitae - Copies of Bachelor???s and Master???s degree certificates - Contact information for two references

Eligible applicants who best fit the expected criteria for the position will be invited to an on-site or remote interview.

For more information, please contact: suvi.ponnikas@oulu.fi

Suvi Ponnikas <suvi.ponnikas@oulu.fi>

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Potsdam ViralEvolution

PhD Position "Palaeoviromes: Host-Virus Interactions in Polar Regions from Ancient Sedimentary RNA/DNA" (m/f/d)

Background Viruses are an essential part of all ecosystems. However, our understanding of past virus dynamics and host-virus interactions is limited. Utilizing ancient DNA/RNA from lake sediments could contribute to a more holistic view of past ecosystem changes. The aim of this PhD project is to establish laboratory and bioinformatics protocols for the extraction and identification of RNA/DNA viruses. The envisioned protocols should be capable of identifying host-virus interactions within terrestrial polar ecosystems. Target systems include bacteriophage interaction with soil nutrient cycling, Antarctic bird-virome dynamics, and full-ecosystem-level virome changes in response to millennial-scale warming.

Tasks - Establish laboratory and bioinformatics routines for sedimentary ancient RNA extraction and virus identification - Analyse a shotgun dataset to identify changes in hosts and viruses in polar (Arctic and Antarctic ecosystems over the last 30,000 years - Potentially, conduct fieldwork in polar regions

Requirements - Master's or equivalent degree in biology, chemistry, bioinformatics, or a related discipline - Knowledge of molecular genetics and bioinformatics, preferably with laboratory experience in molecular genetics (RNA/DNA extraction, PCR, and library preparation for NGS sequencing) - Knowledge in data handling using R (or another syntax-based language) - Highly motivated to publish results in international journals and present at international conferences - Interest in conducting field work in polar regions - Good communication skills in English, both oral and written and ability to work in an interdisciplinary environment

Further Information Please contact Prof. Dr. Ulrike Herzschuh (Ulrike.Herzschuh@awi.de; +49 (0) 331 58174-5601) or Dr. Simeon Lisovski (Simeon.Lisovski@awi.de; +49(331)58174-5635) for further information. https://jobs.awi.de/Vacancies/1432/-Description/2 This position is limited to 3 years. The salary will be paid in accordance with the Collective Agreement for the Public Service of the Federation (Tarifvertrag des öffentlichen Dienstes, TVöD Bund), up to salary level 13 (66%). The place of employment will be Potsdam (Germany).

Simeon Lisovski <simeon.lisovski@awi.de>

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PrincetonU WildlifePopGenomics

PhD Graduate Position in the research group of Dr. Bridgett vonHoldt: Princeton University, Depart Ecology & Evolutionary Biology Princeton, New Jersey, USA

The research group of Bridgett vonHoldt (https://-vonholdt.princeton.edu/) is searching for a highly motivated PhD student. The scope of the group is evolutionary and population genomics of wild species with respect to phenotype evolution and demography. Although most of Dr. vonHoldt's research focuses on canids, all species are welcome!

This five-year PhD position is with the Department of Ecology & Evolutionary Biology at Princeton University in Princeton, New Jersey, USA (https://-eeb.princeton.edu/) under the leadership of Chair Dr. Jonathan Levine.

Applications for the PhD program will open this fall, with a due date for submission is December 1, 2023. Our PhD program admissions process involves each and every one of EEB's faculty members who look for students with an outstanding academic record, serious research experience, curiosity, and the ability to think abstractly. Please reach out to Dr. vonHoldt as soon as you have an interest to discuss further if the scope of your interests and hers would produce a successful and wonderful degree experience. It is the norm in Princeton EEB for applicants to have at least one faculty member who is willing to support their application.

To reach out to Dr. vonHoldt, please include in your email a single PDF that contains: - Motivation letter describing your background and motivation to apply for the position (max. 2 page) - Complete CV that includes a list of publications and 2-3 sentences for each that explain your own contributions - Contact information for two referees who can provide reference letters upon request - Brief outline of programming languages and fluency level - Brief outline of evolutionary theory/coursework

Princeton's EEB PhD program expects up to four semesters of teaching assistance, two departmental seminars given in the PhD student's 2nd and 4th years, the Generals Exam (advancement to candidacy) in Spring of the 2nd year, with a program expectation of the final public presentation at the end of the 5th year.

Please submit materials and a cover letter to vonholdt@princeton.edu

"vonHoldt, Bridgett" <vonholdt@princeton.edu>

"Bridgett M. vonHoldt" <vonholdt@princeton.edu>

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SanDiegoStateU Two UrbanReptileEvolution

I am recruiting two PhD students to start in Fall 2024. *Students interested in studying human impacts on the evolution of reptiles, mentoring undergraduate students in research, collaborating with local communities, and communicating research results to the public are strongly encouraged to apply.* The Evolutionary Biology Program Area at San Diego State has a wonderful community of student and faculty scholars, a growing Museum of Biodiversity, and strong connections to local institutions like the San Diego Natural History Museum and world-famous San Diego Zoo.

I am a new faculty member and first-time professor committed to creating a lab environment that fosters inclusion, community, diversity, learning, and exploration. I am a herpetologist, artist, ecologist, and evolutionary biologist interested in how *Podarcis* wall lizards have evolved with humans and human-built structures for millennia in the Mediterranean and for a few decades in novel North American cities (LA, San Diego, NYC). Of particular interest are how wallie mating systems are affected by humans, phenotypic evolution in cities, and the pace of evolution in novel urban environments. Because I am starting my research program, students who share these general interests and have ideas that they would like to pursue within these study systems will be an especially good fit for the lab.

Interested students should send me an email at kbrock@berkeley.edu with a CV and short description of your PhD research interests. *Students who are eligible for the GRFP and want to write a proposal on urban evolution in wall lizards should get in touch by August 1, 2023.*

Kinsey M. Brock, Ph.D. (she/her) National Science Foundation Postdoctoral Fellow in Biology Museum of Vertebrate Zoology University of California, Berkeley www.kinseybrock.com Kinsey Brock <kbrock@berkeley.edu>

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SGN Frankfurt VertebrateEvolutionaryGenomics

The Senckenberg Gesellschaft fÃÂ¼r 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

PhD position (m/f/d) in Evolutionary Genomics of Vertebrates

(65% part time)

There is an exciting opportunity for a talented and motivated applicant to join the working group of Prof.Dr. Axel Janke. The applicant is expected to be closely involved in evolutionary, population or phylo-genetics to study speciation in mammals (bears, giraffe, kangaroos or allies) at the genomic level. The likely project will involve giraffe genomics.

Your profile

Master degree in Biology, Genetics, Bioinformatics or a related fieldStrong interest and proven skills in evolutionary-, population- and/or phylogenomics, in particular drift-related processesExperience in analyzing NGS and programing of scripts in RExcellent 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

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.

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: part time (65%, 26 weekly working hours)

Type of contract: The contract should start preferably on October 1st and is limited to three years

Salary: according to the collective agreement of the State of Hesse (pay grade E 13, TV-H)

You would like to apply?

Then please send us your complete and informative application documents (CV, letter of motivation, academic transcripts and certification / credentials) in electronic form (as a single PDF file) by 24.07.2023 to recruiting@senckenberg.de, quoting the reference number #11-23007, or apply directly on our homepage using the online application form.

Senckenberg Gesellschaft fÃÂ¼r 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 fÃÂ¼r Naturforschung, please visit www.senckenberg.de . Mit freundlichen GrÃÂ¼ÃÂen / Yours sincerely

Jasmin Reitinger

Referentin Recuiting/HR Department & Personalmarketing

SENCKENBERG Gesellschaft fÃÂ¼r Naturforschung (Rechtsfähiger Verein gemäÃÂ ç 22 BGB)

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Stockholm MeiofaunaSpeciesDiversity

PhD student in Zoological Systematics- Application deadline extended to 15 August.

We invite applications for a four-year PhD position based at the Swedish Museum of Natural History in Stockholm. PhD students at the museum are admitted to the PhD programme at the Department of Zoology, Stockholm University.

The project is aimed at analysing species diversity of the marine meiofauna group Acoelomorpha in Sweden using conventional fieldwork methods as well as e-DNA sampling, estimate the phylogeny of select groups and describe new species. The project includes a considerable amount of fieldwork at marine labs where specimens will be collected, identified, documented, and prepared for downstream analyses. The successful candidate will be supervised by Prof. Ulf Jondelius.

Qualifications In order to meet the general entry requirements, the applicant must have completed a second-cycle degree, completed courses equivalent to at least 240 higher education credits, of which 60 credits must be in the second cycle, or have otherwise acquired equivalent knowledge in Sweden or elsewhere. In order to meet the specific entry requirements, the applicants must have completed at least 120 higher education credits in biology, and at least 30 credits from a degree project within zoological systematics, marine biology, evolutionary biology, bioinformatics, or a similar subject.

Experience in the study of microscopic animals, marine biological fieldwork, analysis of nucleotide sequence data, molecular lab techniques and a strong interest in biodiversity are important qualifications.

The position is for four years. A new position as a PhD student is first for one year and then normally renewed for up to two years at a time. Closing date for the application is 15 August

For more information, please contact Ulf Jondelius (ulf.jondelius@nrm.se) We accept digital applications only. More information, instructions on how to apply, and a submission form are at https://recruit.visma.com/spa/public/apply?guidAssignment=b59cf808-cb54-4ab6-935e-d4a76cc29dbd Ulf Jondelius <Ulf.Jondelius@nrm.se>

TrinityC Dublin NematodeWholeGenomeDuplication

Fully funded PhD studentship in Genetics and Molecular Biology (4 years)

Applications are invited for a PhD studentship position as part of the project "POLYCEL (POLYploid C. ELegans): Consequences of whole genome duplication on physiology and genome regulation in a synthetic C. elegans tetraploid" in a new C. elegans research group at the Smurfit Institute for Genetics, Trinity College Dublin. The position is funded for 4 years, starting in September 2023.

This is a primarily wet-lab molecular biology project using C. elegans artificial tetraploid worms, as a model to study the consequences of polyploidization. But there will also be bioinformatics analysis as part of the project (e.g., RNA-sequencing data analysis)

Whole Genome Duplication or polyploidization, is a particular case of duplication, where the entire genetic sequence is repeated within the nucleus. In plants, WGD is recognized as a major evolutionary force, and is linked to speciation and the ability to resist periods of stress and of environmental upheaval. In animals, examples of current polyploid species are rarer but we know of several ancient events of WGD during early vertebrate evolution. The reason for the success of polyploidy in animals is unclear. The goal of this project is to investigate the physiological consequences of polyploidy and its potential adaptive consequences, using microscopic Caenorhabditis elegans worms, where tetraploidy can be artificially constructed. This project proposes to explore the intersection of four domains: polyploidy, dosage sensitivity, stress responses and genome evolution.

You will be supervised and work closely with Dr Laetitia Chauve, who is leading this research project:

https://scholar.google.com/citations?user=-_4N1IZ0AAAAJ&hl=en .The research team is affiliated with the molecular evolution group of Prof Aoife Mc Lysaght.

We are seeking a highly enthusiastic applicant with a passion for science. Working on this project will require dedication, attention to details, ingenuity, flexibility, the

capacity to work on your own initiative and in collaboration, and the ability to devise new approaches. The research will involve molecular biology techniques, such as RNA interference screening, RNA-sequencing, stress response assays and participation into a short-term evolution experiment.

Applicants must have completed a BSc (Hons) or equivalent degree in Genetics or a molecular biology discipline. Previous experience in molecular biology and a strong interest into the topic and into working with the nematode C. elegans is essential.

Previous experience in bioinformatics is useful.

The School of Genetics and Microbiology at Trinity was awarded Athena SWAN Bronze in 2020. Athena SWAN (Scientific Women's Academic Network) Charter is the internationally recognized quality mark for gender equality in universities/colleges. The award demonstrates that the school has strong evidence-informed plans to address barriers to gender equity and develop inclusive culture and practices.

Stipend: euro 19,000 per annum (tax free) with the possibility of an increase, plus academic fees. There is funding available from the project for training and to attend conferences (1 or 2 per year).

Applicants should apply here:

https://forms.office.com/e/i4RgB5xg1Z Closing date: 10th July 2023, at 17.00 hrs (Irish Time), but applications will be considered until the position is filled.

Laetitia Chauve <CHAUVEL@tcd.ie>

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UAlabama Birmingham EvolutionaryGenomics

The Dolby lab is recruiting a motivated PhD student interested in evolutionary or geological genomics to join our group at the University of Alabama at Birmingham.

We work across disciplines to study controls on population structure and speciation of a diverse range plants and animals using field and computational approaches with a focus on integration of diverse data types. Projects are available under the themes of: 1. Earth-life evolution - how do changes in Earth's surface (mountains, rivers) shape speciation patterns and how can we model these relationships? 2. Multi-'omic controls on adaptation - what are the relative genomic, transcriptomic, chromatin, and epigenomic controls on adaptation to drought in rattlesnakes?

UAB is a vibrant R1 urban university with a top-ranked medical school, excellent recreation and dining, brewery, and entertainment options. We rank in the top for student diversity, are family friendly and encourage strong work-life balance. Our department is housed in a new, state of the art science and engineering complex and is actively growing its research faculty.

If interested, please email me with a brief synopsis of your prior experience (if any) and why you are interested in our group. Students from underrepresented groups and/or quantitative backgrounds are particularly encouraged to apply. Applications due to UAB by Oct 15th.

Greer Dolby Assistant Professor Dept of Biology, UAB www.greerdolby.org www.bajageogenomics.org "Dolby, Greer" <gdolby@uab.edu>

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UCalifornia LosAngeles PopGeneticsMicrobiome

Graduate position: UCLA.PopulationGenetics/Microbiome

Graduate student position at UCLA in population genetics/evolutionary dynamics of the microbiome

A PhD position starting in Fall 2024 is available in the lab of Dr. Nandita Garud in the Department of Ecology and Evolutionary Biology at the University of California, Los Angeles. We are broadly interested in understanding the evolutionary dynamics of natural populations with a current focus on the microbiome. The lab develops statistical and computational methods to gain insight into evolutionary processes from population genomic data.

Students will have substantial input in the specific nature of their research project. However, the project should broadly fit within the lab's goals of learning about evolution in natural populations (e.g. in Drosophila melanogaster) and evolutionary dynamics in the microbiome. As this is a computational lab, prior experience in in programming in R, Perl, or Python, and shell scripting is preferred.

Additional information can be found at: http://-garud.eeb.ucla.edu The Ecology and Evolutionary Biology department at UCLA offers a cutting-edge research environment with many opportunities for collaboration. The lab will have affiliations with the Microbiome Center at UCLA and the Institute for Quantitative and Computational Biology at UCLA.

Interested candidates should apply to the EEB, bioinformatics, or human genetics program at UCLA by December 1 and specify Nandita Garud as a Prospective Faculty Advisor (https://www.eeb.ucla.edu/-grad_onlineappl.php). Please reach out to Dr. Garud for direct inquiries at ngarud@ucla.edu to assess if we would be a good fit. In the email, please include:

- A letter describing your background and motivations pursuing a PhD in the Garud Lab

- CV that includes a brief 1-2 sentence description of your contribution to past research projects.

- Contact information for two referees who can provide references upon request

- A description of your programming background.

- A description of your evolutionary coursework

Looking forward to hearing from you!

Nandita Garud, PhD Assistant Professor Department of Ecology and Evolutionary Biology University of California, Los Angeles 621 Charles E. Young Drive South Los Angeles, CA 90095-1606 Lab website: https://garud.eeb.ucla.edu "ngarud@g.ucla.edu" <ngarud@g.ucla.edu>

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ULeicester UK GenomeWideSelectionSignals:

How strongly is genome-wide genetic diversity affected by selection in rapidly evolving species? If a species is constantly under strong selection pressures, does this leave an imprint everywhere in the genome or just at specific genes and regions?

At the Department of Genetics and Genome Biology of the University of Leicester, we are searching for a PhD student to tackle these questions by analysing publicly available data sets from a variety of (putatively) rapidly evolving species. If you are keen on analysing genomic data with bioinfomatic methods, work with data and theoretical models to then discuss this in the light of evolution, biology and beyond, have a closer look at the full description (including contact details and how to apply): https://le.ac.uk/study/research-degrees/funded-opportunities/ggb-freund . This is a College of Life Sciences Studentship, it provides i) full-time UK tuition fee waiver for 3.5 years, ii) standard UKRI stipend for 3.5 years (for 2023/4 this will be ï¿½18,668 pa), iii) bench fees ï¿½5,000 p.a. and RTSG ï¿½1,500 p.a. for 3 years.

Note that an international fee waiver may be available on a competitive basis but overseas students are expected to be able to pay the difference between UK and International fees. This will amount to ï¿½17,138 per year of study.

Deadline for application is July 31st.

Fabian Freund, Lecturer for Population Genomics

Department of Genetics and Genome Biology, University of Leicester, UK

"Freund, Fabian" <ff95@leicester.ac.uk>

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UNevada Reno EvolutionParentalCare

UNEVADA_RENO.EvolParentalCare

Content:

We are looking for a talented and enthusiastic evolutionary or behavioral ecologist for PhD position. The successful applicant will work on a project aimed at understanding the evolution of mating and parental care systems. The PhD candidate will work in the research group of Dr. Davide Baldan, located at the University of Nevada, Reno, USA.

The candidate will be based at the University of Nevada, Reno (UNR). UNR is a R1 institution offering a highly productive research environment. The Biology Department is home to 37 faculty members that maintain nationally recognized, extramurally funded research programs, mentor 50 graduate students, and participate in undergraduate research. The PhD candidate will join the highly interdisciplinary EECB PhD program (https://www.unr.edu/eecb), which brings together fac-

ulty and students from a range of departments. The candidate is expected to carry out fieldwork in Europe for 2-3 months per year. The candidate has the opportunity to customize his/her education according to scientific interests.

Project description:

Family life is a fascinating social system in which two parents must cooperate to raise the offspring together, while facing an evolutionary conflict of interest ('sexual conflict'). This conflict has led to the evolution of a variety of parental care strategies, from biparental care to female only- and male only-care. We use different songbird populations in Spain (near Madrid) and Italy (Italian Alps) to study the mechanisms and evolutionary consequences of parental care decisions.

Proposed research topics in this call include:

1 - How do parents respond to each other? The candidate can plan and execute behavioral field experiments to elucidate the behavioral rules that parents adopt when negotiating care for their offspring.

2 - Neuroendocrine mechanisms mediating pair bonding and parental care. The candidate can make use of a neuroendocrine lab at UNR to study the hormonal and physiological regulation of mating and parental strategies.

3 - Effect of climate change on mating and reproductive strategies. The candidate can use long-term breeding datasets and monitor active songbird populations to investigate the effect of climate warming on reproduction of alpine birds.

Qualifications

The ideal candidate is highly motivated, ambitious, creative, and has a good affinity with behavioral ecology research. The successful candidate will have the following required qualifications:

- the ability to work independently and in a team;

- excellent conceptual capacity;

- excellent command of the English language; Spanish or Italian is a plus.

- excellent communication and presentation skills, both in words and in writing;

- some knowledge of advanced statistics and a computer language like R.

Application

Interested candidates should send an email to dbaldan@unr.edu with a CV and a cover letter. You can submit your application until September 30th, 2023. The successful candidate must then submit an application package to EECB by December 15th 2023. Starting date is Fall 2024.

Details about admission and requirements can be found at https://www.unr.edu/eecb/prospective-students Information

For information you can contact: Davide Baldan, dbaldan@unr.edu

Dr. Davide Baldan

Assistant Professor

Department of Biology

University of Nevada, Reno

1664 N Virginia Street, Reno, NV 89557

https://www.davidebaldan.com/ Davide Baldan <dbaldan@unr.edu>

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UPalermo Biodiversity

Are you interested in studying biodiversity? Our world is changing and new challenges are incoming. All aspects involved in mapping, monitoring, restoring and valorizing biodiversity across all habitats, from deep-sea to upper mountains through urban ecosystems are crucial to address human-well-being.

The National PhD School in Biodiversity, coordinated by the University of Palermo, is a joint action among universities, public research bodies, private companies, and it is supported by the National Biodiversity Future Center (NBFC). Healthy and functioning ecosystems - thanks to the role played by biodiversity - represent the fundamental core for sustaining life on our planet.

The PHD students will deal with the complex transition from pristine ecosystems to ecosystems which are heavily impacted by human disturbance, to promote biodiversity preservation, monitoring and restoration, the latest being recently confirmed as one of the central policy law by the European Union, with the establishment of the Restoration Law (2023).

Moreover, biodiversity valorization activities, also enhanced by innovative technological tools, will contribute to Global Health, and will help creating new jobs and planning management strategies in line with the UN SDG for 2030.

The PhD program offers 6 curricula: - Marine biodiversity and innovative technological solutions - Terrestrial and freshwater biodiversity and innovative technological solutions - Urban biodiversity and innovative technological solutions - Translate scientific evidence on biodiversity into social awareness and economic value - Biodiversity and the one-health approach - Biodiversity & innovation: business, policy, systemic logic and regenerative economy

Closing applications: August 17th, 2023 The PhD program starts: November 1st, 2023 Application form available at: https://www.unipa.it/didattica/-dottorati/dottorato-xxxix/bando-di-accesso-ciclo-39—biodiversity/ PhD program coordinated by the University of Palermo in association with: National Biodiversity Future Center ?¿‘ NBFC University of Siena, University of Padua, University of Salento, University of Florence, University of Genoa, University of Milan Bicocca, University of Molise, University of Modena and Reggio Emilia, Polytechnic University of Ancona, University of Salerno, University of Naples Federico II, University of Roma-3, University of Udine, Sant'Anna School of Advanced Study Pisa, Stazione Zoologica Anton Dohrn - SZN Naples, National Institute of Oceanography and Applied Geophysics ??" OGS Trieste, National Research Council (IAS Institute, Capo Granitola), Environmental Agency of Sicily - ARPA

Lorenzo Zane Professore Ordinario di Ecologia Coordinatore della Didattica DiBio

tel: +39 0498276220 mobile: +39 3929495233 skype contact: lolozaup

Secondo Piano Sud Dipartimento di Biologia Università di Padova via U. Bassi/58B I-35121 Padova Italy

lorenzo.zane@unipd.it

UParma PrimateEvolutionaryGenomics

GraduatePosition: UniParma.PrimateEvolutionaryGenomics.PhD.CallOut

Three year PhD position to study Primate evolutionary genomics at the Department of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), University of Parma (Italy) (https://scvsa.unipr.it/en), under the supervision of Prof. Cristian Capelli.

The project aims at investigating the evolutionary history of primate species using available and newly generated genomic data comprising high and low coverage whole genome sequences. Given the nature of the project applicants will be expected to have previous proven experience in the handling of genomic data (whole genome sequences) within a population genomic context (including reads mapping, variants calling and biostatistical pop gen analyses) and use of high-performance computational clusters.

The call for applicants is now open, with dealine on August 3rd 2023. Candidates are expected to be interviewed in late August/early September, and the PhD will begin in Autumn 2023 (November 1st). Interested candidates fulfilling the indicate criteria are strongly advised to contact Prof. Capelli to discuss the project (email: cristian.capelli@unipr.it). Info on the call: https://www.unipr.it/en/node/102704 The PhD is part of the Doctorate program in Biotechnology and Biosciences, which focuses on the study of the function, organisation and regulation of the genomes of microorganisms, animals and plants. The program recruits every year about 10 students and is one of the doctoral programs offered by the SCVSA department. Info on the PhD course in Biotechnology and Life Sciences: https://www.unipr.it/sites/default/files/2023-06/ ING%2039%C2%B0%20Biotecnologie%20e%20 Bioscienze%20DEFIN.pdf

The SCVSA department has been recognised Department of Excellence by the Italian Ministry of Education, University and Research (MUR), receiving dedicated funding.

University of Parma is one of the oldest in the world, originally founded in 962 by Emperor Ottonian. The University holds 9 Departments, 40 First Cycle Degree Courses, 6 Single Cycle Degree Courses, 46 Second Cycle Degree Courses (7 of which entirely held in English), as well as many Postgraduate schools, Teacher Training courses, several Master Programmes and PhDs. The size of the University (27,000 students, with more than 5,000 graduates per year and about 1,700 faculty and staff members), together with the quality of life in Parma has always attracted a large number of students from all over Italy. More than two-thirds of our registered students come from outside of Parma and its Province: for this reason the University deserves top ranking for attracting the most non-resident students nationwide.

Many facilities are available to students to enhance the quality of their studies and university life, including, language courses at the Foreign Language Centre, and

many sports activities run by the University of Parma CUS, which offers courses in a number of disciplines in a wide range of structures - a swimming pool, athletics tracks, tennis courts, football pitches, a golf course, basketball courts, rugby pitches, etc.

Parma, the hometown of the famous Italian music composers Giuseppe Verdi and Arturo Toscanini, is located in the Emilia-Romagna region, in the North of Italy. The city hosts several famous historical buildings (the Renaissance Teatro Farnese among the others) and is placed within the beautiful Parma valley, also known as the "Food Valley" for its world-wide renowned gastronomic products.

Firma il tuo 5xmille all'Universit? di Parma, aiutaci a essere sempre pi? accoglienti e inclusivi verso le nostre studentesse e i nostri studenti - Indica 00308780345 nella tua dichiarazione dei redditi.

Cristian CAPELLI <cristian.capelli@unipr.it>

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USunshineCoast KoalasChlamydia

Fully Funded PhD Opportunity - Koalas and Chlamydia Research Scholarship (Universityof the Sunshine Coast, Australia)

Closing date: 5 August 2023

The Detection Dogs for Conservation team at UniSC is looking for a motivated PhD candidate to join the team. A fully funded PhD is on offer for 3 years with a possibility of extension.

The project will focus on the cost of habitat clearing on koalas: testing cost-effective technologies to measure its impact.

This PhD position offers the opportunity to analyse a unique and multi-layered dataset on a wild koala population including GPS movement data, non-invasive samples and veterinary datasets. The project will largely use Genotyping data for koala and Chlamydia, along with molecular tools to detect Chlamydial disease using cost effective technologies (i.e., next generation sequencing).

The ideal candidate will have an honours or masters degree in microbiology, conservation genetics or in a relevant field. Previous experience in the lab and in the field is highly desirable. The candidate must be able to work independently and within various teams as the work setting is highly collaborative.

If you are this candidate please forward a CV and cover letter (maximum 2 pages) to rcristes@usc.edu.au and rgardine@usc.edu.au.

Project information: https://www.usc.edu.au/-study/scholarships/research-scholarships/koalas-and-chlamydia-research-scholarship Detection Dogs for Conservation team: https://www.usc.edu.au/about/-structure/schools/school-of-science-technology-and-engineering/detection-dogs-for-conservation Ajith Horane Karayalage|PhD

Postdoctoral Research Fellow

Detection Dogs for Conservation

University of the Sunshine Coast

ahoranek@usc.edu.au| usc.edu.au/ddc

I acknowledge the Traditional Custodians of the lands and waters upon which the University's campuses are located. I acknowledge their continuing connections to country and pay my respects to Elders past, present and emerging.

University of the Sunshine Coast | CRICOS Provider Number: 01595D

Ajith Horane Karayalage <ahoranek@usc.edu.au>

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UTasmania EvolutionMultipleSclerosisRisk

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

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

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

will use population genomics to identify functional variation under natural selection at loci associated with MS risk.

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

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

The selected candidate will need to apply to the upcoming scholarship round at UTAS (closing 25 September 2023). Details can be found at the UTAS website below:

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

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

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

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UTennessee Knoxville PlantEvolution

PhD Graduate Position in the BotaNEE (Botanical Evolution and Ecophysiology) research group of Dr. Jacob Suissa: The University of Tennessee, Knoxville Department of Ecology and Evolutionary Biology. Knoxville, TN, USA.

The BotanEE (Botanical Evolution and Ecophysiology) Lab in the Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, is seeking a highly motivated and dedicated Doctoral Student to join our team.

Lab Core Purpose: The BotanEE Lab is focused on exploring all areas of botany from evolution to ecophysiology. We take an integrative approach to understanding the evolution, organization, and function of plant biodiversity. Beyond the lab, we have developed the PlAnTS Initiative focused on applying our botanical knowledge and expertise to communicate science to the broader community.

Lab Core Values: these are the fundamental set of principles that guide our communities' projects, activities, behavior, and decisions.

Appreciation for the organism. Intellectual curiosity and continuous learning. Passion for education and outreach. Commitment to diversity, equity, inclusivity, and belonging.

This 6 year PhD position is in the Department of Ecology and Evolutionary Biology at The University of Tennessee, Knoxville in Knoxville, Tennessee (https://-eeb.utk.edu/).

Applications for the PhD program will open this fall, with a due date for submission is December 1, 2023. Please reach out to Dr. Suissa as soon as possible if you are potentially interested in joining the lab. UTK EEB is direct admission, so it is normal for students to reach out to a faculty member for support before applying.

Qualifications: - Bachelor's degree in Biology, Botany, Ecology, or related field. - Experience with microscopy, physiology, phylogenetics, and/or genomics methodologies is preferred but not required. - Strong organizational, communication, writing, and interpersonal skills. - Ability to work both independently and collaboratively as part of a team.

The University of Tennessee offers a competitive salary for the region, excellent benefits, and a supportive and inclusive work environment that values intellectual curiosity and continuous learning. For more information about the department, please visit the webpage here. If you are interested in connecting with current graduate students, please connect with them here. If you are interested in joining the lab, please send Dr. Jacob Suissa an email at jsuissa@utk.edu including your CV and a brief paragraph of your interest in the lab and graduate school.

"Suissa, Jacob S" <jsuissa@utk.edu>

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Vienna Adaptation PopulationGenetics

Apply by September 17, 2023

PhD positions are available within the *Special Research Program (SFB)* < https://www.vetmeduni.ac.at/sfb-polygenic-adaptation >* "Polygenic adaptation: from single selected loci to the infinitesimal model" in Vienna, Austria*. Vienna is on top of the world's most liveable cities and home to one of the largest communities of evolutionary research in Europe (www.evolVienna.at).

The SFB program is funded by the Austrian Science Fund (FWF) and brings together eight research groups at four institutions in and around Vienna with the common goal of elucidating the evolutionary genetics of adaptation of complex phenotypes: *Neda Barghi* < https://www.vetmeduni.ac.at/en/population-genetics/research/barghi-lab/group-leader > *, **Robert Kofler* < https://www.vetmeduni.ac.at/en/-population-genetics/research/kofler-lab >*, **Christian Schlotterer* < https://www.vetmeduni.ac.at/en/-population-genetics/research/schloetterer-lab > * (Vetmeduni); **Joachim Hermisson* < https://-www.mabs.at/team/ >*, **Himani Sachdeva* < https://www.mabs.at/team/ >* (Univ. of Vienna); **Magnus Nordborg* < https://www.oeaw.ac.at/-gmi/research/research-groups/magnus-nordborg/ >*, **Kelly Swarts* < https://www.oeaw.ac.at/gmi/-research/research-groups/kelly-swarts >* (Gregor Mendel Institute); **Nick Barton* < https://-bartongroup.pages.ist.ac.at/people/group-leader/ >* (ISTA)*. For young scientists, this cluster offers a unique environment for interaction and personal growth.

The SFB aims to develop a framework for understanding polygenic adaptation and to establish new standards for the analysis of adaptive polygenic traits in GWAS and experimental evolution studies. We will combine model-based conceptual work and data-driven approaches from GWAS and experimental evolution to achieve this goal. The models and methods that will be developed integrate population genetic and quantitative genetic approaches to detect, analyze, and interpret genomic patterns of the "architecture of polygenic adaptation".

*SFB ' a collaborative environment for research and learning: *The theoretical and empirical projects of the SFB are highly synergistic and the collaborative nature of the SFB will provide an inspiring academic environment and promote curiosity-driven research. The interaction between projects of the SFB is strongly facilitated by a long-standing track record of fruitful interactions among the PIs. The PhD students and postdocs in the SFB will benefit enormously from these tight interactions.

To ensure a good integration of experiment and theory, researchers have the opportunity to spend some time in a group from the other "camp". These regular exchanges will improve the mutual understanding of concepts and problems, ensure that the theoretical work is guided by experiments (and vice versa) and will represent a true added value of the SFB. In addition to the formal supervisor, both PhD students and postdocs will have at least one co-advisor with complementary expertise.

*Courses: *The recruited early-stage researchers in the SFB will have the opportunity to acquire experience beyond their own projects and working groups.

The SFB PIs participate in joint teaching activities and representatives of all institutions are contributing to the Vienna Graduate School of Population Genetics (www.popgen-vienna.at). The PhD students will be integrated in the Vienna Graduate School of Population Genetics, which offers a 5-week introductory course that covers subjects as diverse as statistics, population genetics, Drosophila genetics, programming, NGS data analysis (both DNA- and RNA-Seq) and quantitative genetics.

SFB postdocs will have the opportunity to participate in the teaching in introductory course in their areas of expertise. But at the same time can attend specific modules of the introductory course together with the PhD students. This joint event will have a tremendous impact on team-building and can enable scientists from different host institutions to establish strong ties which can result in research collaborations.

The IST Graduate School offers more advanced courses in evolutionary

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ViennaU PopulationGenomics

PhD Position in Population Genomics, University of Vienna, Austria (f/m/d)

THE POSITION: A 3-years Austrian Science Fund (FWF) funded PhD position is available at a genomic research group led by Elmira Mohandesan, PhD at University of Vienna, Austria. In this project we aim to use New Zealand feral horse populations as a a natural, on-going laboratory to investigate the effects of founder events and conservation strategies on genetic diversity and inbreeding in natural and managed populations. To this end, it is planned to whole genome shotgun sequence a large number of feral horses from the Kaimanawa ranges. The obtained data will be analysed using state-of- the-art population genetic approaches.

YOUR TASKS: - Basic wet-lab experiments (DNA extraction, Illumina library preparation, Quality Control, etc.)

- Population genetic analysis to examine relatedness, breed ancestry, genomic diversity, inbreeding, signature of selection, mutational loads, and the future population viability (scenario testing). - Documentation of data generation, and analysis procedure. - Administration, and organisation of the generated data according to the Research Data Management (RDM) policy at the University of Vienna (https://rdm.univie.ac.at/). - Active participation in lab meetings, seminars and journal clubs.

YOUR PROFILE: - Background in evolutionary genetics, molecular biology, population genetics, and/or bioinformatics. - Bioinformatics skills (e.g., Unix, R, Python, Perl) and expertise in NGS data is required. - Basic wet-labs skill is advantage. - Proficiency in written and spoken English is required. - Ability to work independently, and efficiently within a multi- disciplinary research environment. - Proactive and self-motivated personality.

WE OFFER: - A 3-years funded PhD position remunerated according to the FWF personnel costs (gross salary 2.464,80 Euros per month, 14 salaries per year based on the Austrian pay roll system). - A diverse and supportive team in an inspiring, and international setting at the Department of Evolutionary Anthropology (https://www.anthropology.at/). - In-person scientific seminars by the invited renowned scientists around the world organised through the HEAS platform (https://-www.heas.at/). - Access to cutting-edge scientific infrastructure and computational resources through CUBE platform (https://cube.univie.ac.at/). - Living in Austria's capital city Vienna, located in the heart of Europe and ranks as one of the most attractive cities worldwide.

HOW TO APPLY: Please send your application (CV, motivation letter), and names/contact information of two potential referees to Elmira Mohandesan, PhD (E-mail: elmira.mohandesan@univie.ac.at). Preferred starting date: Fall 2023.

Elmira Mohandesan <elmira.mohandesan@univie.ac.at>

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WageningenU ProteinEvolutionBioinformatics

PhD Researcher in Bioinformatics: Investigating protein evolution using machine learning

Orphan genes are genes that can only be found in one species. Even though more and more sequencing data is available, we cannot find homologs of these genes outside of that single species. The evolution of such genes is particularly intriguing, since they might arise from very fast divergence beyond recognition or entirely novel "from scratch" from a region that did not code for a protein before. Alternatively, some might simply be artefacts of the automatic annotation. Orphan genes have been mainly studied in eukaryotes, where they are associated with organismal novelties and species-specific traits, and are generally thought to be important for adaptation. Much less is known about prokaryotic orphans. However, prokaryotes evolve rapidly and are exposed to changing environments, in which orphan genes might provide novel adaptations.

In this project, we will investigate orphans in human gut microbiome species. We will use state-of-the art machine learning approaches to study the properties of orphans and to learn about their evolutionary origin and potential function. In particular, we plan to use predicted protein structures to detect remote homology and to investigate the properties of proteins with potentially novel functions. This work will contribute to a fundamental understanding of how proteins evolve.

The research is embedded within the Bioinformatics Group at Wageningen University, the Netherlands. Your

daily supervisors will be dr. Anne Kupczok and dr. Aalt-Jan van Dijk, with complementary expertise: molecular evolution of microbes (Anne Kupczok) and machine learning and protein structures (Aalt-Jan van Dijk). Your qualities

The ideal candidate must have the following qualities:

* A successfully completed MSc degree in bioinformatics, biology, data science or a related discipline; * Proficiency in programming (e.g. in Python); * Experience in applying machine learning to biological data; * Strong affinity with molecular evolution and/or prokaryote genomics; * Good statistical and mathematical skills; * Perseverance in problem solving; * Excellent writing and oral communication skills in English.

You can find more information and the application link here: https://www.wur.nl/en/vacancy/phd-researcher-in-bioinformatics-investigating-protein-evolution-using-machine-learning.htm "Kupczok, Anne" <anne.kupczok@wur.nl>

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Warsaw EvolutionSpiderBehavior

PhD Position - Evolution of social behavior in spiders, Warsaw, Poland

Deadline: 10 August 2023

We are looking for a highly motivated candidate with a solid background in animal behavior, evolutionary biology, and/or animal physiology.

Project description

The transition between solitary to social lifestyle is considered one of the most important evolutive transitions in animals. The evolutive pressures leading to the appearance and maintenance of social organizations have been deeply studied and discussed in the last decades, but the mechanisms behind these transformations in behavior and lifestyle are still poorly understood. The main aim of the Ph.D. thesis will be to investigate how changes in metabolic rate could be the basis for the appearance of sociality.

Qualifications

The candidate must have an MSc degree (or equivalent) in Biology/Ethology or another relevant field. A strong background in animal behavior and evolutionary biology are required.

Knowledge or experience in animal physiology (metabolic rates, hormonal measurements) would be an important asset, along with experience with invertebrates' manipulation. Candidate must have a good oral and written English communication skills and have team-player qualities.

Work description

The project will be carried out at the Museum and Institute of Zoology, Polish Academy of Sciences in Warsaw (Poland). Successful candidate will be under the supervision of Dr. Magdalena Witek and Dr. Violette Chiara and will receive guidance from them and the rest of the team and collaborators. The project is financed by the National Science Center, which ensures the PhD student of a monthly research stipend of about 4600PLN net for the first three years and 3600PLN net for the last year.

The candidate will have the opportunity to participate in fieldwork in Poland and French Guyana, perform behavioral experiments in laboratory conditions and participate in all the processes associated with data analyses and article redaction. An internship in Italy is also planned as part of a between-laboratories collaboration. Candidate will also be encouraged and guided in developing her/his own ideas.

How to apply

To apply or get information, please contact Dr. Violette Chiara (violette.chiara@gmail.com).

The application must include: A) Letter of motivation, B) CV, C) Copy of MSc certificate, D) Names and contact details of two references, E) application form:

https://szkoladoktorska-bioplanet.pl/wp-content/-uploads/2021/06/Application_RODO_MIZ.pdf . Candidates are encouraged to consult the doctoral school's website to familiarise themselves with how it operates:

https://szkoladoktorska-bioplanet.pl/en/home/ . Deadline for application: 10 of August 2023.

Selection

Selected candidates will be contacted by e-mail to define a date for an interview which will take place at the Museum and Institute of Zoology of Warsaw, or by video call. The successful candidate will then join the BioPlanet Doctoral School (http://szkoladoktorska-bioplanet.pl/en/home/) for a starting date of 1st October 2023.

Violette Chiara <violette.chiara@gmail.com>

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Jobs

ArizonaStateU BiodiversityInformaticianNEON

NEON Biorepository Biodiversity Informatician

The Arizona State University (ASU) School of Life Sciences is seeking a Biodiversity Informatician (Database Analyst) for the National Ecological Observatory Network (NEON) Biorepository (https://-biorepo.neonscience.org/). NEON is expected to run for 30 years. For each project year, the NEON Biorepository at ASU will receive, process, store, and make available for research an average of 100,000 samples from more than 80 sites across the United States. We facilitate this with a data portal to support discovery and tracking of sample occurrences and sample data linkages, sample transactions, and research use. The biodiversity informatician will play a critical role in providing and refining these services to benefit the greater NEON research community.

The position is integrated with the Biodiversity Knowledge Integration Center (BioKIC), which provides inclusive and equitable access to knowledge services related to biodiversity collections and data. We promote diversity, inclusion and equity through what we value, what we do, and who we are. BioKIC is committed to providing a healthy work environment and work-life balance. The position can be located in Tempe, Arizona; or remotely.

For more information and to submit an application:

1. Go to https://cfo.asu.edu/applicant 2. Select "External applicants only - Apply here" 3. Search for "NEON" or "93219BR"

or go directly to https://-sjobs.brassring.com/TGnewUI/Search/home/-HomeWithPreLoad?partnerid=25620&siteid=-5494&PageType=JobDetails&jobid=4788473 Prior inquiries to nico.franz@asu.edu are 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@asu.edu" <nico.franz@asu.edu>

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Bonn Germany EvolutionModelling

The faculty of Mathematics and Natural Sciences of the Rheinische Friedrich-Wilhelms-Universität Bonn wishes to occupy a Professorship (W2) for Ecological Modelling at the Department of Biology at the earliest possible date.

We are looking for candidates with a proven expertise in the field of ecological model-ling, successful acquisition of competitive third-party funding, a very good publication record and documented, relevant teaching experience. Possible research profiles include the theory and analysis of structure and dynamics of terrestrial ecosystems (i.e., for instance, dynamic modelling of populations or communities, ecological net-works, cross-scale modelling, vegetation ecology, effects of global change or habitat fragmentation on biodiversity). Connections to the existing organismic (zoological and/or botanical) research on site, e.g. in biogeography, in linking the ecological and evolutionary processes over historical and/or geological periods and/or in biodiversity monitoring are explicitly welcome. A profound understanding of theoretical ecology and the own development of models are essential. Moreover, we expect a solid background in empirical research (data collection in the fields, experimental design, systems approaches) as well as excellent taxonomic knowledge and a deep under-standing of Central European ecosystems and/or ecosystems of the Global South.

Active participation in the design and the establishment of research foci within the department of Biology in cooperation with the faculty of Agriculture and the Zoological Research Museum Koenig are expected.

Links of the research profile to the Trans-disciplinary Research Areas (TRA) of the University of Bonn Modelling or Sustainable Futures are of advantage.

Relevant teaching experience and corresponding evaluations are a prerequisite. Teaching participation in the B.Sc. program Biology and in the Masters' programs Plant Sciences and Organismic Biology, Evolutionary Biology and Paleobiology is expected.

The University of Bonn commits itself to diversity and equal opportunity. It is certified as a family-friendly university and provides a dual career service. The aim is to in-crease the fraction of women in areas where women are under-represented, and to particularly promote their careers. The University of Bonn therefore strongly encourages qualified women to apply.

Applications are processed in accordance with the State Equal Opportunities Act. Applications from suitable persons with proven severe disability or with an equivalent status are particularly welcome.

Applications in German or English with the usual application documents (CV, publication list - separately listing original papers, contributions to books, reviews, all without abstracts - proof of relevant teaching experience, third-party funds, research perspectives and teaching concept) are requested by July 9, 2023 via the link of the university of Bonn: (https://berufungsportal.uni-bonn.de/openProcedureList.do) For any questions please contact the Department of Biology fgbiol@uni-bonn.de.

Alexandra Muellner <muellner_alexandra@yahoo.de>

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ClaremontColleges AnimalEvolutionFuncMorphology

Tenure-Track Position in Evolutionary Biology/Functional Morphology of Animals The W.M. Keck Science Department, Pitzer and Scripps Colleges

The Keck Science Department invites applications for a tenure-track appointment in Biology with an emphasis in animal evolution and/or functional morphology at the Assistant Professor level to begin July, 2024. We are especially interested in applicants whose work explores form and function in an ecological and evolutionary context and who incorporate quantitative and/or computational techniques, including phylogenetic approaches. We seek broadly trained evolutionary biologists who are committed to 1) developing a vibrant research program that fully engages undergraduate students, 2) excellence in teaching, and 3) promoting inclusivity in research and teaching. The position will involve teaching a vertebrate anatomy course with lab, participation in the introductory biology sequence, and the opportunity to develop advanced undergraduate and non-majors courses in the candidate's field.

The department, which houses the biology, chemistry, neuroscience, environmental analysis, and physics faculty for Pitzer and Scripps Colleges (two of the five

undergraduate Claremont Colleges), offers innovative and interdisciplinary programs in the natural sciences. The Department supports faculty success through mentorship, opportunities for professional development, and regular sabbaticals. The department also offers many shared facilities in support of research including an animal care facility, a microscope facility, and a new greenhouse in Fall 2024. Faculty of the Keck Science Department are part of the rich intellectual environment of the Claremont Colleges consortium and benefit from close proximity to major research universities in the Southern California region, enabling collaboration both within and outside the department. The Department will open a new state-of-the-art science facility, the Nucleus in Fall 2024. The department anticipates multiple hires across the sciences in the current year (https://sites.google.com/view/-scripps-pitzer-science-dept/biology). Additional information about the department may be found at http:/-/www.kecksci.claremont.edu/. A Ph.D. degree, postdoctoral experience, and a record of scholarly publication are required.

Applications should be uploaded to http://-apply.interfolio.com/127723 and must include (1) a cover letter describing your interest in, and summarizing your capacity for, the position, (2) a curriculum vitae, (3) a description of your proposed undergraduate-centered research program, (4) a statement describing your approach to teaching and how you pursue excellence in teaching, (5) a description of how you have fostered and/or will foster the promotion of diversity, equity, and inclusion, and (6) the names and e-mail addresses of three references. Applicants should identify in their application materials any areas of intersection between their teaching and research interests, as well as their diversity statements, and the academic missions of Scripps and Pitzer Colleges. Please notify your three references that we will require letters of recommendation promptly should you advance to the semifinalist stage. Inquiries regarding the position may be e-mailed to Associate Professor Jenna Monroy at jmonroy@kecksci.claremont.edu. Review of applications will begin October 1st, 2023, and the position will remain open until filled.

The salary for this position will range from $90,000-98,500 and will be set based on a variety of factors, including but not limited to internal equity, experience, education, specialty, and training.

The Keck Science Department of Pitzer and Scripps Colleges is an equal-opportunity employer. In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the department actively encourages applications from women and members of historically under-represented groups in higher education.

"Budischak, Sarah" <SBudischak@kecksci.claremont.edu>

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ColbyCollege 1yrVisiting TeachingEvolutionaryBiology

Visiting Assistant Professor of Biology - Ecology/Evolutionary Biology (one year position) Colby College - Waterville, ME

The Department of Biology at Colby College is seeking an ecologist/evolutionary biologist to fill a one-year position as Visiting Assistant Professor of Biology, to begin September 1, 2023. Candidates should have a Ph.D. in the biological sciences with emphasis in ecology or evolution and teaching experience is desirable. A commitment to undergraduate education is expected. We are especially interested in candidates who, through their work, will contribute to the diversity and excellence of the campus community.

The successful candidate will teach five courses per year, with laboratories and discussion-based seminar classes constituting a portion of that load. The teaching responsibilities will include primary responsibility for a field ecology course, BI253 Ecological Communities, and an additional course in the candidate's area of expertise.

Please submit a cover letter, curriculum vitae, contact information of three referees, statement of teaching philosophy and inclusive pedagogy, and graduate transcript on Interfolio link http://apply.interfolio.com/128072. Candidates are invited to include an optional statement in their cover letter regarding how COVID-19 pandemic has affected their career trajectory. Applications received by July 26 will receive full consideration, but review will continue until the position is filled.

Colby 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 more information about the Biology department, please visit:— http://www.colby.edu/bio/ . Dave Angelini <drangeli@colby.edu>

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Ensenada Mexico MarineEvolution

Center for Scientific Research and Higher Education of Ensenada, Baja California

POSITION ANNOUNCEMENT

The Department of Biological Oceanography (DBO), part of the Division of Oceanology at the Center for Scientific Research and Higher Education of Ensenada, Baja California (CICESE) invites interested parties to apply for an open researcher position call.

REQUIREMENTS

a) Academic Background:

- Doctoral degree in Science, in any field related to Biological Oceanography.

- Postdoctoral experience or the equivalent.

- Research experience with peer-reviewed Journal Citation Reports (JCR) indexed publications.

b) Profile:

- Experience in the study of ocean and coastal ecosystems, with an emphasis in, but not limited to, the following lines of research:

1. Marine ecosystems, global change and society.

2. Physical-biological and biogeochemical coupling in the ocean.

3. Biology, diversity and conservation of marine resources.

- Ability and interest to supervise graduate students, as well as teach graduate courses in the aforementioned areas.

c) The candidate will be required to:

- Maintain an active, externally funded research program.

- Publish results in peer-reviewed journals and conduct outreach activities.

- Link with social, governmental and private sectors.

- Network with inter-and transdisciplinary research groups.

- Be a current or potential member of the National System of Researchers (Sistema Nacional de Investigadores).

d) Responsibilities:

- Carry out original research and publish results in JCR-indexed journals.

- Teach graduate courses in the Marine Ecology Graduate Program.

- Supervise graduate theses in the Marine Ecology Graduate Program and others.

- Design research projects and acquire funding.

- Collaborate in multi-and transdisciplinary research projects, internally and externally.

- Participate in departmental and institutional outreach activities.

EVALUATION PROCEDURES:

The search committee and the department will review applications, conduct interviews, and review a public hiring research seminar.

The recommendation of the search committee and the department will be submitted to the Director of the Division of Oceanology and be subject to the approval of the General Director. If a final decision is unable to be reached, the call will be declared unfilled and a new one will be issued.

SALARY:

Salary and benefits include: (a) Base salary according to the assigned category deemed appropriate based on the CV of the applicant following the Academic Personnel Statutes of CICESE. (b) Benefits in excess of those required by law (including premiums, medical insurance, savings fund access, etc.). (c) Productivity bonuses. (d) An additional monthly scholarship from the National System of Researchers (SNI) (in case the recruited candidate is not a member of the SNI, it is expected from him/her to apply to the system with CONAHCYT).

Attached is the current salary categories for researchers at CICESE and the relevant clauses from the Collective Employment Contract related to the benefits of CICESE Academic Personnel.

APPLICATION MUST INCLUDE:

- Curriculum vitae updated with supporting documents.

- Letter of interest specifying proposed research and teaching activities in the Department of Biological Oceanography and CICESE.

- Three letters of recommendation.

- Succinct 3-year work plan (research, teaching, and outreach).

Please provide all documents digitally in a single PDF file to the email address below. Recommendation letters may be emailed separately. Please label all files with the last name of the applicant.

CONTACT:

Dr. Axayï¿½catl Rocha Olivares

Search Committee Coordinator

Department of Biological Oceanography

Email: arocha@cicese.mx

Phone +52 646 175 05 50

DEADLINE FOR RECEIPT OF DOCUMENTS:

Friday, July 28 2023

Publication date:

Thursday, June 29, 2023

Center for Scientific Research and Higher Education of Ensenada, Baja California.

POSITION ANNOUNCEMENT

ANNEX

SALARY OF RESEARCH STAFF 2023

Category Level Gross monthly salary

Senior Researcher C MX$42,730.40

Senior Researcher B MX$40,974.05

Senior Researcher A MX$39,218.05

Associate Researcher C MX$35,706.20

Associate Researcher B MX$31,608.95

Associate Researcher A MX$30,204.30

The category will be assigned by the External Commission in accordance with the provisions of the Statute of Academic Personnel of CICESE, and the benefits are reflected in the

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

Hamburg FishCurator EvolutionaryBiology

Hamburg.Fish.Curator.EvolutionaryBiology

The LIB is seeking for an ichthyologist (tenure-track, in Hamburg, Germany). Evolutionary biology of fishes is among the desired fields of expertise. Details below; application only by upload at https://leibniz-lib.de/-en/karriere/ Contacts: Alexander Haas (a.haas@leibniz-lib.de), Fabian Herder (f.herder@leibniz-lib.de)

The Leibniz Institute for the Analysis of Biodiversity Change (LIB) is one of the large, globally connected research museums of the Leibniz Association. In addition to excellent research on biodiversity and its change, we are advancing the development of our extensive scientific collections with an international team and state-of-the-art technology. With our exhibition, knowledge transfer and communication work at our exhibition venues Museum Koenig Bonn and Museum der Natur Hamburg, we want to spread enthusiasm for nature and contribute with our research topics to current socio-political discussions on species loss, climate change and the protection of ecosystems. The construction of an integrated natural history museum is being planned for the Hamburg location; the research infrastructure at the Bonn location is currently being significantly expanded.

The LIB is looking for a scientist for a position as

Curator Ichthyology (m/f/d) at LIB Hamburg starting as soon as possible, representing research at an internationally competitive level. The successful candidate will bridge the gap between the fish collection and ichthyological research on drivers of biodiversity change in space and time.

The candidate's scientific expertise should be evident in collection-based ichthyological research and must cover at least one of the following fields: -) fish morphology, -) population and/or community ecology of fishes, -) evolutionary ecology and/or systematics of fishes.

We expect the candidate to -) hold a PhD in zoology or related areas, preferred with focus on ichthyology, -) be a designated expert in fish taxonomy with profound species knowledge of extant fishes, -) have working experience with natural history collections, especially fishes, -) demonstrate a vision of further developing the fish col-

lection, -) have a strong publication record, with a vision for future research, -) actively develop a working group, -) acquire substantial third-party funding, -) promote LIB-internal teamwork and external collaborations.

The successful candidate:

-) Will function within the Centre for Taxonomy and Morphology in Hamburg, and will play a strong role in advancing the LIB's reputation as a preeminent institution for the study of biodiversity change on a global scale. -) Will be tasked with assuming full curatorial responsibility for the ichthyological collection housed by LIB Hamburg, -) Will be responsible for a wide range of duties such as collection management, provision of scientific services, expansion and digitization of the collection, and contributions to outreach activities.

The Leibniz Association is committed to diversity and gender equity. The LIB is certified as a family-friendly institution. We aim to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. We therefore strongly encourage women with relevant qualifications to apply. This is a tenure-track position, initially limited for three years according to the WissZeitVG. Starting remuneration will be in pay group E13 according to the TV-L. After a successful tenure evaluation, the candidate will be classified in TV-L E14. Applications will be handled in accordance with the Landesgleichstellungsgesetz NRW (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome. When recruiting, they have priority over applicants who are not legally privileged and who have essentially the same suitability, qualifications and professional performance. Salary corresponds up to grade TV-L E 13 in the German Public Service Scheme. The contract will start as soon as possible. Applications in English, accompanied by supporting documentation (CV, certificates, lists of publications and funding) and a concept for leading the Ichthyology section should be submitted no later than July 31st 2023 only digitally to Frau Susanne Jenschke www.leibniz-lib.de/karriere .For further information about Museum Koenig Bonn and Museum der Natur Hamburg please see: https://www.leibniz-lib.de . Herder Fabian <F.Herder@leibniz-lib.de>

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HawaiiInstMarineBiology GeneticsLabManager

LABORATORY ANALYST AT THE HAWAI'I INSTITUTE OF MARINE BIOLOGY

The ToBo Lab < https://tobolab.org/ > at HIMB < https://www.himb.hawaii.edu/ > in beautiful KÄneÊ≫ohe Bay < https://www.uhfoundation.org/-sites/default/files/photo_galleries/07-22-2017/-365691751/dougpeebles_coconut17_2990px.jpg > is seeking a lab manager with emphasis in the application of genetic techniques (such as RAD-seq and metabarcoding) and data management and analyses (bioinformatics in linux OS) to assist with benchwork on numerous ongoing projects, train students and assist with analyses.

https://www.jobspider.com/job/view-job-13449108.html https://www.indeed.com/job/himb-rad-seq-laboratory-analyst-id-223413-c3f67d599afc6d36 Applicants must apply online through www.rcuh.com, and postings on JobSpider and Indeed should also link to that, but if not, you can go to RCUH < http://www.rcuh.com/ > click on Job Postings, and search by job ID#223413. Applicants need only a cover letter, CV, reference list & copy of degree or transcripts to apply.

The job is open until filled with review of applications to start July 28th.

Rob Toonen <toonen_rob@hotmail.com>

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

Kiel Germany MicrobialPhylogenetics DeadlineAug8

I would like to bring to your attention this recently advertise group leader position at Kiel, Germany. I would be grateful if you could send it to potentially interested early career scientists.

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

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

LeibnizInst Hamburg HeadMolecularLaboratory

Head of the Molecular Laboratory (m/f/d)

The Leibniz Institute for the Analysis of Biodiversity Change (LIB) is one of the large, globally connected research museums of the Leibniz Association. In addition to excellent research on biodiversity and its change, we are advancing the further development of our extensive scientific collections with an international team and state-of-the-art technology. With our exhibition, knowledge transfer and communication work at our exhibition venues Museum Koenig Bonn and Museum der Natur Hamburg, we want to spread enthusiasm for nature and contribute with our research topics to current sociopolitical discussions on species loss, climate change and the protection of ecosystems. The construction of an integrated natural history museum is being planned for the Hamburg location; the research infrastructure at the Bonn location is currently being significantly expanded.

The LIB is looking for a scientist for a tenure track position as

Head of the Molecular Laboratory (m/f/d)

at the LIB Hamburg, representing research at an internationally competitive level. The head of the molecular laboratory Hamburg will play a leading role in advancing molecular research at highest scientific standards. The successful candidate will closely collaborate with the LIB research sections covering the entire animal diversity, apply and develop advanced molecular methods and research approaches and will coordinate all operations of the central infrastructure of the Hamburg molecular lab, providing services to a broad range of projects at the LIB.

We expect the candidate to

- Hold a PhD in Ecology, Evolution or Molecular Biology or a closely related field with emphasis on empirical molecular work and computational skills in these subjects, documented in a good publication record. - Have expertise in molecular methods, including DNA / RNA extractions (manual and automated), PCR, next-generation sequencing library preparation, establishing lab setups. - Have strong experience in data management and analysis of sequence and genome data (computational skills) in compliance with the FAIR principles. - Have experience in working with non-model organisms (animals). - Have experience in developing long-term strategies for the lab, meeting the goals of a state of the art central molecular lab service. - Have experience in team management and student supervision. - Closely collaborate with the Bonn molecular lab, promote novel ideas for methods and techniques and apply them in research projects tailored to requirements of museomics. - Closely collaborate with the LIB Biobank team by preprocessing samples for deposition at the LIB Biobank in Bonn, and by acting as liaison between researchers in Hamburg and the Biobank. - Have motivation to work in a team and take responsibility. - Have excellent communication skills and be fluent in written and spoken English.

It is desirable that the applicant has/is:

- A good knowledge of bioinformatic analyses of sequence data, statistical analyses and graphical visualization of data. - Experience with museomics sample preparation and data analysis. - Experience with soft money acquisition, in particular concerning infrastructure development. - Experience with outreach involving the molecular lab. - A good understanding of German is advantageous.

The Molecular Laboratory is a centralized facility, with its branches in Bonn and Hamburg providing knowledge and infrastructure to all LIB researchers. The Molecular Labs of both branches and the LIB Biobank are part of the Centre for Molecular Biodiversity Research and contribute to the ongoing development of the LIB as a globally leading institute for the study of biodiversity change. The labs of both localities are independent but closely collaborate in developing future strategic developments and perspectives and in making their particular expertise available to all researchers in the LIB. As Head of the Hamburg Molecular Lab, the successful candidate will take full responsibility for the lab's operations, coordination and training of users, maintenance of equipment, documentation (protocols), and compliance with security guidelines. The candidate is further expected to spend 25% of their time on own research. Applicants are evaluated based on how well they fulfil the requirements detailed above. Such evidence may include documentation of completed course work, scientific publications, technical and analytical know-how, evidence of organisational skills, and prior experience in lab management. Whenever possible, statements to these effects should be accompanied by objective or independent assessment of the candidate's track record and potential. These may include links to access published or unpublished material or letters of support from su-

pervisors or previous employers. The tenure procedure will evaluate the above listed essential criteria (a high publication output

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LIB Hamburg CuratorIchthyology

We seek for a curator for Ichthyology at the Leibniz Institute for Biodiversity at the Museum of Nature, Hamburg in Hamburg. Apply online: https://bonn.leibniz-lib.de/-en/job-portal (Deadline: 31. July).

The Leibniz Institute for the Analysis of Biodiversity Change (LIB) is one of the large, globally connected research museums of the Leibniz Association. In addition to excellent research on biodiversity and its change, we are advancing the development of our extensive scientific collections with an international team and state-of-the-art technology. With our exhibition, knowledge transfer and communication work at our exhibition venues Museum Koenig Bonn and Museum der Natur Hamburg, we want to spread enthusiasm for nature and contribute with our research topics to current socio-political discussions on species loss, climate change and the protection of ecosystems. The construction of an integrated natural history museum is being planned for the Hamburg location; the research infrastructure at the Bonn location is currently being significantly expanded.

The LIB is looking for a scientist for a position as Curator Ichthyology (m/f/d) at LIB Hamburg starting as soon as possible, representing research at an internationally competitive level. The successful candidate will bridge the gap between the fish collection and ichthyological research on drivers of biodiversity change in space and time. The candidate???s scientific expertise should be evident in collection-based ichthyological research and must cover at least one of the following fields:

fish morphology population and/or community ecology of fishes evolutionary ecology and/or systematics of fishes

We expect the candidate to

hold a PhD in zoology or related areas, preferred with focus on ichthyology be a designated expert in fish taxonomy with profound species knowledge of extant fishes have working experience with natural history collections, especially fishes demonstrate a vision of further developing the fish collection have a strong publication record, with a vision for future research actively develop a working group,acquire substantial third-party funding promote LIB-internal teamwork and external collaborations.

The successful candidate

will function within the Centre for Taxonomy and Morphology in Hamburg, and will play a strong role in advancing the LIB's reputation as a preeminent institution for the study of biodiversity change on a global scale.will be tasked with assuming full curatorial responsibility for the ichthyological collection housed by LIB Hamburg will be responsible for a wide range of duties such as collection management, provision of scientific services, expansion and digitization of the collection, and contributions to outreach activities.

The Leibniz Association is committed to diversity and gender equity. The LIB is certified as a family- friendly institution. We aim to increase the proportion of women in areas where women are under- represented and to promote their careers in particular. We therefore strongly encourage women with relevant qualifications to apply.This is a tenure-track position, initially limited for three years according to the WissZeitVG.Starting remuneration will be in pay group E13 according to the TV-L. After a successful tenure evaluation, the candidate will be classified in TV-L E14.

Applications will be handled in accordance with the Landesgleichstellungsgesetz NRW (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome. When recruiting, they have priority over applicants who are not legally privileged and who have essentially the same suitability, qualifications and professional performance. Salary corresponds up to grade TV-L E 13 in the German Public Service Scheme. The contract will start as soon as possible.

Applications in English, accompanied by supporting documentation (CV, certificates, lists of publications and funding) and a concept for leading the Ichthyology section should be submitted no later than July 31 st 2023 only digitally to Frau Susanne Jenschke www.leibniz-lib.de/karriere . For further information about Museum Koenig Bonn and Museum der Natur Hamburg please see: https://www.leibniz-lib.de . Apply online: https://bonn.leibniz-lib.de/en/job-portal Stiftung Leibniz-Institut zur Analyse des Biodiversit??tswandels Postanschrift: Adenauerallee 127, 53113 Bonn, Germany

Stiftung des ??ffentlichen Rechts; Generaldirektion: Prof. Dr. Bernhard Misof (Generaldirektor), Adrian Gr??ter (Kaufm. Gesch??ftsf??hrer) Sitz der Stiftung: Adenauerallee 160 in Bonn Vorsitzender des Stiftungsrates: Dr. Michael Wappelhorst

Meusemann Karen <K.Meusemann@leibniz-lib.de>

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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

QueenMaryU London:ComputationalEvolutionaryGenetics

Lecturer (tenure-track Assistant Professor) in Computational Ecology/Evolutionary Genetics

Closing date: 18 July 2023 https://www.qmul.ac.uk/jobs/vacancies/items/8162.html The school is committed to Athena SWAN principles and the promotion of equality and diversity and holds a Silver Athena SWAN Award. Applications from women and underrepresented (BAME) groups are particularly encouraged to apply.

As the School of Biological & Behavioural Sciences continues to grow, we seek to appoint ambitious research-driven scientists at Lecturer level with a strong publication record as well as significant potential for funding in any area of Computational Ecology or Evolutionary Genetics involving innovative approaches taken from the Artificial Intelligence and data analytics toolbox.

The successful candidate will be involved in teaching on our MSc AI in the Biosciences and potentially other undergraduate or postgraduate programmes (teaching loads are as to be expected within a research-led institution and normally reduced in the first two years following appointment) on subjects such as data analysis in biology, coding for biologists, machine learning and artificial intelligence in biology. We understand those approaches have only relatively recently been applied to those disciplines, as such we are looking for someone with a vision for technical development and addressing key questions. We therefore encourage early career researchers to apply.

Queen Mary University of London (QMUL) is a member of the Russell Group and one of the largest colleges in the University of London, is one of the UK's leading research-intensive institutions (7th for the quality of our research outputs in the 2021 Research Excellence Framework). We have made a strategic commitment to world-class research and teaching across all disciplines.

At QMUL, we believe that a diversity of ideas helps us achieve the previously unthinkable. Throughout our history, we have fostered social justice and improved lives through academic excellence and we continue to live and breathe this spirit today, not because it's simply 'the right thing to do' but for what it helps us achieve and the intellectual brilliance it delivers. We continue to embrace diversity of thought and opinion in everything we do, in the belief that when views collide, disciplines interact, and perspectives intersect, truly original thought takes form.

The post is full time, permanent and with an expected start date of September 2023 or as soon as possible thereafter. The salary will be in Grade 5-6, in the range of 47,178 - 58,595 per annum, inclusive of London Allowance.

Queen Mary's commitment to our diverse and inclusive community is embedded in our appointments processes. Reasonable adjustments will be made at each stage of the recruitment process for any candidate with a disability. We are open to considering applications from candidates wishing to work flexibly.

Informal enquiries should be addressed to the Head of Biology: Professor Christophe Eizaguirre via: c.eizaguirre@qmul.ac.uk.

Matteo Fumagalli <m.fumagalli@qmul.ac.uk>

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RoslinInst Edinburgh QuantitativeGenomics

The University of Edinburgh has announced a call for new Chancellor's Fellows < https://www.ed.ac.uk/human-resources/job/chancellors-fellowships > across the three colleges that will close on 28 August 2023. These are 5 year tenure track positions and Fellows will be enrolled in the Edinburgh Scientific Academic Track (ESAT < https://www.ed.ac.uk/medicine-vet-medicine/our-research/cmvm-research-support/early-career-researchers/edinburgh-scientific-academic-track

>) programme. Those wishing to apply to be hosted on the The Roslin Institute will need to apply to the CMVM call < https://www.ed.ac.uk/medicine-vet-medicine/our-research/chancellor-s-fellows >. The posts come with substantial research and administrative support (1 postdoc position and annual research funding). If you are interested in making the jump to independence in the area of quantitative genetics and genomics please get in touch to discuss the positions. These are fairly competitive positions as they are the path to tenure, hence a competitive CV is imperative.

Best wishes,

Albert

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh Dhï¿½n ï¿½ideann, clï¿½raichte an Alba, ï¿½ireamh clï¿½raidh SC005336.

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

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Senckenberg Three PlantEvolution

Re: 3 new professorships in plant evolution, ecology and digital innovation in collection-based research

Dear colleagues,

we are happy to announce exciting new research opportunities in plant evolution and ecology. Friedrich Schiller University Jena and Senckenberg - Leibniz Institution for Biodiversity and Earth System Research are establishing a new research institute for Plant Form and Function around the Herbarium Haussknecht in Jena. The aim of SJeP is comprehensively analysing biodiversity change in the Anthropocene, in large temporal depth and spatial breadth using modern and novel methods. SJeP will combine the expertise of four professorships in the fields of Digital Collectomics, Bryophyte Ecology and Evolution, Integrative Plant Taxonomy, as well as Plant Biodiversity.

The professorships are embedded in the Senckenberg Society as well as an innovative Central German research landscape including the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, and will be provided with excellent conditions for innovative collection-based research and teaching. As part of SJeP, two professorships will be newly established as joint appointments, and another cooperating professorship will be newly filled at the University of Jena:

Integrative Plant Taxonomy: We are looking for a recognized research personality who covers the full breadth of the field of integrative plant taxonomy. This is a multidisciplinary approach that combines classic methods of taxonomical research with methods of microevolution and population genetics (including next generation sequencing), phylogenetics and phylogeography, as well as functional morphology under evolutionary aspects. The successful candidate has experience in the application of modern methods in evolutionary research and taxonomy (genetic methods, omics methods) and an interest in collection-based research. In the area of teaching, the successful candidate covers the field of systematic botany including species identification courses in the BSc Biology and the MSc Evolution, Ecology and Systematics.

Professorship of Bryophyte Ecology und Evolution: We are looking for an internationally recognized expert in the field of bryophyte ecology, phylogeny, and microevolution. In-depth expertise in diversity and taxonomy of bryophytes are required. The professorship is responsible for the development of the collection of cryptogams in Herbarium Haussknecht and to foster its scientific use, especially regarding the role of bryophytes for the functioning of ecosystems and as indicators of biodiversity change in the Anthropocene.

Professorship in Digital Collectomics: We are looking for an internationally recognized expert in the field of computer science or natural sciences with proven expertise in the development and implementation of methods in the field of digitization, artificial intelligence, machine learning and/or 2D/3D imaging and corresponding modelling in the field of biodiversity research. The successful candidate is interested in scientific and natural history collections and in biological questions as well as in inter- and transdisciplinary work in research and teaching.

More information on the job opportunities in Jena can be found here:

https://www.senckenberg.de/en/career/scientists/-#content-0002_1 Background information on the new institute is here:

https://www.iee.uni-jena.de/sjep Friedrich Schiller University Jena and Senckenberg Society for Natural Research aim to increase the proportion of women in research and teaching and therefore strongly encourage qualified female academics to apply.

We look forward to receive your applications as specified

Christine Römermann - Univ. Jena

Frank Hellwig - Univ Jena

Karsten Wesche - Senckenberg

Karsten Wesche <Karsten.Wesche@senckenberg.de>

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SGN Frankfurt MuseumCollectionManagement

The Senckenberg Gesellschaft fÃÂ¼r Naturforschung (SGN) was founded in 1817 and is one of the most important research institutions around biological diversity. At its eleven sites throughout Germany, scientists from over 40 nations conduct cutting-edge research on an international scale. At the site in TÃÂ¼bingen, Baden-WÃÂ¼rttemberg, the Senckenberg Centre for Human Evolution and Palaeoenvironmant (HEP) is located in a lively university town with historical flair and numerous local recreational opportunities.

The Senckenberg Gesellschaft fÃÂ¼r Naturforschung, headquartered in Frankfurt am Main, is looking for the following person to join the Senckenberg Centre for Human Evolution and Palaeoenvironment (SHEP), Department of Geoarchaeology, at the TÃÂ¼bingen site as soon as possible

Scientific employee (m/f/d) in the field of collection management, coordination and public relations

(full-time / part-time is possible)

The Geogenomic Archeology Campus TÃÂ¼bingen (GACT) will bring together experts from the fields of archaeology, genetics, geosciences, ecology, and microbiology to examine the evolutionary relationship between humans and ecosystem biodiversity through the multidisciplinary analysis of sedimentary archives containing ancient DNA.

GACT will focus its investigation on caves and their sediments, since caves house unique and discrete ecosystems that can be significantly impacted by outside agents. Caves can be seen as laboratories that preserve tens of thousands of years of genetic data to understand human-ecosystem interactions over the long term.

Your tasks:

Scientific processing coordination of cave sediment samples as part of the GACT projectDigitizing and cataloging the collection inventory, as well as recording and scientifically classifying sediment samples as well as new additions through GACTCarrying out communication and public relations work within the project, including designing communications, establishing and maintaining relationships with target groupsyou are the contact person for neighboring departments, participating authorities, stakeholder groups (media, science, politics, NGOs) as well as project partners in Germany and abroadin the context of public relations for the project you will organize meetings and workshopsyou will be responsible for the organization and realization of two special exhibitions on the GACT resultsas part of the project coordination, you will be responsible for the internal coordination of the GACT and support the GACT management in questions related to the General AssemblyYou will be responsible for monitoring financial matters for the GACT

Your profile

a completed academic university degree (master's degree / diploma) in the natural sciences, ideally with a doctorate (PhD) in archaeology or a related discipline and a proven record of publicationyou have proven knowledge in collections managementknowledge and experience in project managementyou are already familiar with the organization and implementation of (special) exhibitionsin the field of public relations you have profound knowledge and experience in managing and promoting a project as well as representing it internally and externallyyou have very good oral and written skills in both German and EnglishYou have a high level of communication skills in dealing with personalities and stakeholders from different areas such as science, politics and media

We offer

a varied and interesting job in a globally recognized research institutionindependent action in an international and professional environmentflexible working hours - possibility of mobile working - support with childcare or caring for family members (certified by the "audit berufundfamilie") - Senckenber badge in combination with free admission to numerous municipal museums - a collectively agreed annual special payment - collectively agreed vacation entitlement - company pension plan

Place of employment: TÃÂ¼bingen (Baden-WÃÂ¼rttemberg)

Working hours: Full-time (39,5 hours/week), part-time options are available

Type of contract: limited until the end of the project: 31.08.2027

Pay: according to the public collective agreement (TV-L), presumably E 13

Senckenberg is committed to diversity. We benefit from the diverse expertise, perspectives and personalities of our employees and welcome applications from qualified candidates regardless of age, gender or gender identity, ethnic or cultural origin, religion and belief, sexual orientation and identity or disability. Applicants with a severe disability will be given preferential consideration if they have the same qualifications. Senckenberg actively supports the compatibility of work and family and attaches great importance to an equal and inclusive culture of cooperation.

You would like to be part of our team?

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StAndrews Scotland AquacultureGenetics

Vacancy: Breeding Programme Manager (Aquaculture Genetics)

Xelect is a leading aquaculture genetics services provider, based in St Andrews, Scotland. After a sustained period of rapid growth we are looking to recruit an additional Breeding Programme Manager to join our team. Our Breeding Programme Managers are experienced aquaculture professionals who are responsible for developing and managing genetics-backed breeding programmes and carrying out consultancy for our global portfolio of customers.

With the support of our highly experienced laboratory, bioinformatics and genetics teams you will: - Co-ordinate the design of new genetics-based programmes and communicate them to our customers - Manage the day-to-day running of our programmes, co-ordinating our internal resources whilst acting as a virtual member of our customers' team - Perform and deliver the necessary phenotyping and selective breeding analyses using our in-house software - Handle large datasets and interact with our in-house customer databases - Ensure that programmes are well managed, run efficiently and are delivered on budget and on time - Prepare annual reports and other briefings for customers, demonstrating performance against their commercial objectives - Travel to support our customers on site at key times, providing practical support to implement their breeding programme - Report to the Head of Project Management.

Requirements Essential skills: - 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 - Experience working within the aquaculture industry - Excellent data management and computer literacy skills - Willing to travel and experience working in other countries - Strong relationship management skills - Basic knowledge of statistics and programming platforms.

Desirable skills: - Proficiency with programming platforms R and / or Linux - PhD relating to aquaculture, fish reproduction or animal breeding - Advanced statistical skills including multivariate analysis - Proficiency in other languages - Peer-reviewed publications in the field of aquaculture, reproduction or genetics.

Salary and Location: We currently operate a â' working pattern, combining office days and working from home. The position comes with a competitive salary and will be based in St Andrews, Scotland.

About Xelect: Xelect is a leading aquaculture genetics service provider with a global portfolio of clients, including some of the biggest names in the industry. We employ a team of 17 staff, including a multidisciplinary technical team with 13 PhDs in aquaculture, quantitative genetics, bioinformatics, molecular biology and physiology. There are three business streams: breeding programme management, BioAudit & due diligence services and laboratory services. The business has its headquarters in the medieval university town of St Andrews on the East coast of Scotland some 80 km from Edinburgh airport. The company occupies modern office and laboratory facilities with 2 Illumina DNA sequencing machines. Breeding programme management is the largest business segment contributing 80% of revenues from customers in 20 countries dealing with 19 species of fish, shrimp and oysters. The company has developed sophisticated industry-leading genetic and bioinformatic analysis pipelines including advanced mate selection software. The breeding service involves strategic partnerships with customers on rolling long-term contracts with a high level of project management support delivered from the UK and through customer

visits. Revenues are in access of Â£2million/year and are growing at around 30% per annum. The company is profitable with good levels of cash flow. The shareholders in decreasing order of holding are Genus plc, Prof. Ian Johnston FRSE (current CEO and co-founder), the University of St Andrews, Dr Tom Ashton (Operations Director and co-founder) and the EOS Technology Investment Syndicate.'

Further information: To apply please send a current CV and a covering letter to hello@xelect.co.uk, along with contact details of two referees. References will only be contacted after a successful interview. If you would like to make any enquiries about the role please email hello@xelect.co.uk.

Rachael Wilbourn <rachael.wilbourn@xelect.co.uk>

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UAlberta MolecularEvolution

Tenure-track position in Molecular Ecology - Assistant or Associate Professor

We invite candidates to apply for a tenure-track position at the Assistant or Associate Professor level in Molecular Ecology. Candidates who specialize in population genomics and related disciplines are encouraged to apply. We seek a collaborative and innovative scientist and educator who uses genomic tools to explore consequential, contemporary questions in ecology, evolution and/or conservation of organisms in natural environments. We are interested in attracting a colleague who is willing to integrate across existing areas of Departmental research and teaching expertise. Applicants must hold a PhD in Biological Sciences or a related field and have a demonstrated track record of impactful research leveraging genomics technologies and analysis of complex genomic data sets. The successful candidate will develop an independent, original, and externally funded research programme. The candidate will be expected to supervise both graduate and undergraduate students and contribute to a vibrant department through teaching undergraduate and graduate courses. Importantly, the candidate will demonstrate a commitment to the principles of equity, diversity and inclusion (EDI), in all aspects of their research, teaching and service.

The Department of Biological Sciences (https://-uofa.ualberta.ca/biological-sciences) includes more than 50 faculty members and 225 graduate students researching diverse taxa at multiple levels of biological organization. Approximately 3,200 undergraduate students take courses offered by Biological Sciences each year. The Department offers three undergraduate programs: Ecology, Evolution, and Environmental Biology; Integrative Physiology; and Molecular, Cellular and Developmental Biology, as well as an Honors in Immunology and Infection program. The University of Alberta offers a rich environment for interdisciplinary research collaborations and exceptional infrastructure including core facilities for aquatics, microscopy, proteomics, metabolomics, biogeochemistry, and genomics. The University of Alberta is located in Edmonton, a vibrant and diverse metropolitan city of about one million people and the provincial capital of Alberta that is located on Treaty 6 territory and Metis Nation of Alberta Region 4.

Candidates should electronically submit an application package to molecol@ualberta.ca comprising (a) a cover letter, (b) a curriculum vitae, (c) a 2-page research statement that includes a section describing how their research plans align with Department, University, and regional strengths and opportunities, (d) a 2-page statement of their teaching philosophy, demonstrated experience in teaching and mentoring, and proposed contributions to teaching within the Department, (e) up to 2-page statement outlining their past and proposed actions to increase the inclusion and advancement of underrepresented groups in teaching, research and service environments, and (f) reprints of their 3-5 most impactful publications or other meaningful contributions. Please combine these files into a single pdf. Short-listed applicants must arrange for three letters of reference. Please alert potential references in advance, as the reference letter collection phase will be limited in duration.

All correspondence should be addressed as follows and emailed to molecol@ualberta.ca: Dr. Declan Ali, Chair Department of Biological Sciences CW405 Biological Sciences Building University of Alberta Edmonton, AB Canada T6G 2E9 Closing Date: September 30, 2023 The effective date of employment will be July 1, 2024 (open to negotiation)

To assist the University in complying with mandatory reporting requirements of the Immigration and Refugee Protection Act (R203(3) (e)), please include the first digit of your Canadian Social Insurance Number in your application. If you do not have a Canadian Social Insurance Number, please indicate this in your application. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to an

equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Mï¿½tis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.

As part of the Temporary Foreign Worker Program requirements, the university must conduct recruitment efforts to hire Canadians and permanent residents before offering a job to a temporary foreign

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UCalifornia Berkeley LabTech

Dear colleagues,

I am sending along an ad for a lab technician position in my lab starting ASAP. The position is for one year with the possibility of conversion to career track depending on interest and performance. The position is full time and includes benefits. Salary is commensurate with experience and ranges from $22 to $28/hr. The tech will be expected to help with fruit fly and poison frog husbandry as well as phenotypic assays and genomic wet lab methods. Training will be provided as needed but prior experience in any of these areas is a plus. Unfortunately the position cannot provide visa sponsorship. You can learn more about our lab here: www.tarvinlab.org Please email me with any questions. Submit your application through the portal here: https://careerspub.universityofcalifornia.edu/psp/ucb/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=21&JobOpeningId=55012&PostingSeq=1 We aim to start reviewing applications around July 7 with interviews starting July 12.

Please share with any interested students and colleagues.

Rebecca (Becca) D. Tarvin

Assistant Professor, Department of Integrative Biology

Assistant Curator of Herpetology, Museum of Vertebrate Zoology 3101 Valley Life Sciences Building

University of California Berkeley Berkeley, CA 94720-3160

Office: (510)642-0308 Lab website:www.tarvinlab.org Twitter: @frogsicles

Senior Associate,AmphibiaWeb

Rebecca Tarvin <rdtarvin@berkeley.edu>

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UCalifornia SantaCruz GlobalChangeGenomics

The Global Change Lab in the Department of Ecology and Evolutionary Biology (https://www.eeb.ucsc.edu/) at the University of California Santa Cruz (UCSC) invites applications for a Global Change Assistant Researcher. The Researcher will prepare genomic libraries for sequencing, assist with population and historical genomics research, develop and apply bioinformatic pipelines, analyze large datasets with scientific computing, maintain and promote open science practices, help with research group administration, and assist with maintaining a collaborative and supportive research environment for all members.

In the Global Change Lab, we use population genomics and data science to study biodiversity change from genes to communities, locally and around the world. Much of our research is focused on climate change and conservation in coastal marine environments. We offer a dynamic and collaborative work environment, involvement in a wide range of research projects, extensive learning and professional development, and opportunities for co-authorship on scientific manuscripts. We value a healthy work-life balance and pursue actively inclusive and anti-racist practices. Please see https://globalchange.sites.ucsc.edu/ . The work environment will primarily be a population genomics lab on the beautiful Coastal Science Campus at UCSC within a short walk of the ocean and easy access to mountains and open space. The EEB department offers a diverse, exciting, and supportive environment for learning and research and is complemented by colleagues at the Institute for Marine Science, the Coastal Science and Policy Program, NOAA Fisheries, the Center for Coastal Climate

Resilience, and others. Fieldwork will be infrequent but may be diverse, remote, physically challenging, or involve international travel. Sample collection could involve SCUBA diving or hiking. Work may require lifting 30 pounds.

Laboratory and field research (30%)

- Perform DNA and RNA extractions, DNA and RNA library preparations for next-generation sequencing, and other molecular ecology procedures to support research. Maintain contamination-free work environment for research on historical specimens. Assists students and other researchers in learning field and laboratory skills.

Bioinformatics & Data Science (30%)

- Data entry and analysis with bioinformatic and scientific computing for contribution to research papers, articles, and professional journals. Maintain meticulous analysis records. Lead training within the group to improve data science and open science practices.

Open science and administrative (20%)

- Lead open science practices and training in the group across data, code, and samples; lead purchasing, record-keeping, organization of supplies and equipment, laboratory compliance with safety regulations, and maintenance of budgets and related paperwork. Contribute to improvement and efficiency of research group operations.

Outreach and community building (20%)

- Maintain research group and related websites - Assist with building a collaborative and supportive research environment for all members and guests of the research group

Benefits

This is a full time position with benefits. Pay will be $56,600-$59,800. Start date is 9/1/2023 or other mutually agreed upon date.

Knowledge and Experience

- Bachelor's degree or higher (or equivalent foreign degree) in population genomics, molecular ecology, or related scientific field at time of application. - Experience building population genomic libraries, developing bioinformatic pipelines, and conducting population genomics analyses. - Computer literacy in R and a commitment to open science practices. - Excellent written and oral communication skills. - Ability to solve diverse technical and organizational challenges with exceptional creativity and collaboration - Exceptional organizational skills and strong ability to accomplish tasks independently - Evidence of community-building skills and ability to foster inclusion

Application

To apply, please submit a cover letter that describes your interest in and qualifications for the position, a curriculum vitae, and the contact information for three references to mpinsky@ucsc.edu. Review of applications is ongoing and will continue until the position is filled.

Please contact Malin Pinsky (malin.pinsky@ucsc.edu) with questions.

Malin Pinsky <malin.pinsky@gmail.com>

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UCyprus PlantEcologyClimateChange

Tenure-track position at the rank of Lecturer or Assistant Professor in the field of "Plant ecology and climate change" at the Department of Biological Sciences, University of Cyprus

The University of Cyprus invites applications for one (1) tenure-track position at the rank of Lecturer or Assistant Professor in the Department of Biological Sciences, in the field of "Plant ecology and climate change". Preferred areas of expertise may include but are not limited to: plant responses to environmental change, plant acclimation, adaptation, resilience and/or mitigation to climate change at the community, population or ecophysiological levels. Efforts to address desertification, resilience and recovery to fire, limited water, or other biotic and abiotic stresses and anthropogenic disturbances are of local relevance. Research focus may be on global distribution patterns or specific environments, including temperate Mediterranean, tropical, polar or alpine ecosystems, and may integrate multidisciplinary approaches, such as field ecology, macroecology, genomics, physiology, remote sensing and/or GIS.

For all academic ranks, a Doctoral degree from an accredited University is required. The minimum requirements for each academic rank are available at https://rb.gy/-e9oi7 and include: previous academic experience, outstanding research achievements and notable scientific contributions, experience in developing and teaching of high quality undergraduate and graduate curricula. Candidates do not need to be citizens of the Republic of Cyprus. The official languages of instruction are Greek and Turkish. For the above position, fluency in

the Greek language is necessary. In case the selected candidate is not proficient in the Greek language, the candidate and the Department shall ensure that the former acquires sufficient knowledge of the Greek language within 3 years from the date of appointment.

In accordance with the applicable legislation, the annual gross salary (including the 13th salary) for full-time employment is: Assistant Professor (Scale Ã13-Ã14) euro 62.611,88- euro 84.439,86 Lecturer (Scale Ã12-Ã13) euro 47.589,64- euro 77.438,96 Employee contributions to the various State funds will be deducted from the above amounts.

Candidates are invited to submit their applications electronically by uploading the following documents in English and in PDF format at the following link: https:/-/applications.ucy.ac.cy/recruitment 1. Cover Letter 2. Curriculum Vitae 3. Copy of ID/Passport 4. Copies of degree certificates 5. Review of previous research work and a brief description of future research projects (up to 3 pages) 6. List of publications 7. Representative publications (up to 3 publications which should be submitted separately). While publications are not required for the rank of Lecturer, candidates applying for this rank are encouraged to submit representative publications if they have any. 8. The names and email addresses of three professors from whom confidential letters of recommendation (in English) will be automatically requested upon submission of the application. Letters of recommendation may be submitted up to 7 days following the deadline for submission of applications. It is the responsibility of each candidate to ensure that the references are submitted. In case the letters of recommendation are not submitted on time, the application will not be considered. The above documents (1-7) must be uploaded as separate PDF documents.

The deadline for applications is on Monday 09th of October 2023.

The selected applicants will be required to submit copies of degree certificates certified by the Ministry of Education (if the degrees were obtained from universities in Cyprus) or from the Issuing Authority (if the degrees were obtained from foreign universities). Applications, supporting documents and recommendation letters submitted in response to previous vacancy announcements will not be considered and must be resubmitted. Applications not providing all the required documents specified in the online application form at the above link will not be considered. The applicant shall ensure that their application has been successfully submitted. Upon submission, the candidate will receive an automated confirmation email. For more information, please contact the Department of Biological Sciences (biol@ucy.ac.cy) or the Human Resources Services (tel.: 00357 22 89 4146).

Anna Papadopoulou <a.papadopoulou05@alumni.imperial.ac.uk>

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

ULausanne Switzerland EvolutionaryEcology

The Department of Ecology and Evolution at U. Lausanne (Switzerland) (www.unil.ch/dee) is looking to hire a professor in the field of evolutionary ecology.

A successful candidate will have expertise in organismal biology, a strong research track record, and motivation to teach introductory evolutionary biology to undergraduate students. While we are open to diverse profiles, we particularly encourage applications from candidates using experimental approaches to study physiological or behavioral adaptations. Priority will be given to candidates whose research has low environmental impact and complements the diversity of questions and organisms already studied at the department. The position will be at Tenure track Assistant Professor level. However, outstanding candidates may be considered for the Associate Professor rank, particularly if this corresponds with our aim to promote diversity. The position comes with a generous startup package and an annual research budget. The teaching load for new assistant professors is very light (14h/year). Prior knowledge of French is not required, but we expect the candidate to be able to teach in French within two years.

With over 16 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 more information, contact professors Marc Robinson-Rechavi and Tanja Schwander <direction_dee.1@unil.ch>

Official description of the position and information about the content of applications can be found at https://-tinyurl.com/4ukcdbrf (if the French version of the page opens, you can change to English by clicking in upper-right corner). Only applications submitted through that website can be considered. Deadline: 30 September 2023.

Tadeusz J. Kawecki Department of Ecology and Evolution University of Lausanne Biophore Bld, office 3111

Tadeusz Kawecki <tadeusz.kawecki@unil.ch>

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ULincoln UK EvolutionEcology

The School of Life and Environmental Sciences (https://-/www.lincoln.ac.uk/lifesciences/) at the University of Lincoln, UK is looking to hire a full Professor in the broad field of Evolution or Ecology.

Following our excellent performance in teaching and research and strong undergraduate and postgraduate recruitment, we are seeking to appoint a full Professorship to pursue an internationally-excellent programme of research in the broad area of Evolution and Ecology. The position would also support the delivery of teaching across our range of existing undergraduate modules within our BSc Biology, BSc Ecology and Conservation and BSc Zoology programmes. The Evolution and Ecology research group is the largest research group in the School and broadly spans 5 research themes (Evolutionary Ecology, Biophysics, Community & Ecosystem Ecology, Disease Ecology and Paleobiology). The Evolution and Ecology research group also work closely with colleagues in the Department of Geography, other groups within Life Sciences such as Animal Behaviour, Welfare and Cognition, as well the Lincoln Institute for Agri-Food Technology (LIAT).

We are looking for an outstanding candidate whose research consolidates within one of the Evolution and Ecology group's existing research strengths. The candidate should have an excellent track record of publications and of applying for and securing research funding. The candidate should also have experience of teaching undergraduate and postgraduate level, and would be expected to contribute broadly across our existing undergraduate and taught Masters profile as well as engaging students in research up to and including PhD level.

Working with us, you will join an internationally recognized research group and benefit from a stimulating, interdisciplinary and collegiate academic environment. We support excellence in teaching and research, and you will be part of a team that provides a popular portfolio of qualifications at BSc, MSc and PhD level as well as delivering high quality, impactful research. You will be based at University's Brayford campus in the heart of a thriving, safe and friendly city, with access to research facilities in the city as well as the university's Riseholme campus.

The University of Lincoln is a forward-thinking, energetic institution, with a substantial commitment to growing science infrastructure. If you would like to be part of shaping our world-class vision and would like to know more about this opportunity please email Dr Carl Soulsbury, research group lead for Evolution and Ecology csoulsbury@lincoln.ac.uk, or Professor Steve Bevan, Head of School sbevan@lincoln.ac.uk for more information or to arrange an informal conversation about the position

[University of Lincoln] < http://lincoln.ac.uk/ > Dr. Carl Soulsbury | Associate Professor / Programme Leader College of Science University of Lincoln. Brayford Pool, Lincoln, Lincolnshire. LN6 7TS tel: 01522835026 <tel:01522835026> life-historyresearch.weebly.com | staff.lincoln.ac.uk

Situated in the heart of a historic city on the beautiful Brayford Pool Waterfront, the University of Lincoln is proud of its reputation for putting students at the heart of everything it does. We are ranked in the top 30 UK universities for student satisfaction in the Guardian University Guide 2023, listed in the world's top 130 universities in the Times Higher Education's (THE) Young University Rankings 2022, and hold a top five-star score overall in the QS Stars rating system of global universities.

The closing date for applications is 10ˆth September 2023. For more information on how to apply and for the job specification, please see: https://jobs.lincoln.ac.uk/-vacancy.aspx?ref=COS980A

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

ULisbon ResearchTechnician

Dear all,

The Adaptation in Complex Environments group at the University of Lisbon (cE3c/FCUL) is seeking a 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 tasks such as DNA 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-cyclin gBrassica rapa plants 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/128043 . Deadline: 13th August 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 <irfragata@fc.ul.pt>

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UMichigan EvolutionaryPsychology

The Biopsych area at Michigan has a strong evolutionary contingent and we welcome applications from evolutionary perspectives.

New from University of Michigan- Applications are now being accepted (July 15-September 15) for a tenure-track Assistant Professor position in Biopsychology with a focus on behavior, systems or integrative neuroscience. For more information, see the job ad athttp://-apply.interfolio.com/127311 . Description The Department of Psychology at the University of Michigan, Ann Arbor, invites applications for a tenure-track Assistant Professor in Biopsychology, broadly in the areas of behavioral, systems, or integrative neuroscience. Preference will be given to applicants whose work includes a rigorous examination of behavior and behavioral questions as a central component of their work. We are looking for individuals whose research compliments the strength of our department in behavioral, systems, and affective neuroscience, and/or whose work bridges neuroscience with evolutionary, comparative, and neuroethological approaches to animal behavior. This is a tenure-track university year appointment. The expected start date is August 26, 2024.

The successful candidate will be a faculty member affiliated with the top-ranked Biopsychology Area in Michigan's Department of Psychology. Biopsychology has a strong foundation in behavioral, systems, and affective neuroscience as well as evolutionary/comparative approaches to animal behavior. The successful candidate will also be a part of University of Michigan's large and collaborative neuroscience community including the campus-wide Michigan Neuroscience Institute, and Interdepartmental Neuroscience Graduate Program. The University of Michigan is a rich, interdisciplinary research campus ranked No. 1 in research volume among U.S. public universities for the past decade. Multidisciplinary research initiatives and institutes on campus bring together collaborations across 19 schools and colleges, including business, engineering, design, public health, information, education, public policy, law, and medicine.

Thore Bergman

Professor Departments of Psychology & EEB 4054 East

Hall University of Michigan Ann Arbor, MI 48109 734-615-3744 thore@umich.edu

Thore Bergman <thore@umich.edu>

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UMichigan Paleontology

The Museum of Paleontology and the Department of Earth and Environmental Sciences at the University of Michigan are searching for a full-time tenure-track faculty candidate in the field of Paleontology at the assistant professor/assistant curator level. This is a university year appointment with an expected start date of August 26, 2024. The Museum of Paleontology has internationally significant collections of plant, invertebrate, and vertebrate fossils totaling roughly four million specimens. Paleontology faculty labs and offices are in the Biological Sciences Building, which houses biology units (Ecology and Evolutionary Biology; Molecular, Cellular, and Developmental Biology) and the Museum of Natural History.

We seek applicants who have broad research, teaching, and curatorial interests in paleontology. The Museum and the Department invite applicants in fields including but not restricted to: macroevolution, interactions between developmental biology and evolution, extinction dynamics, paleoecology, organismal paleobiology, and biotic responses to global change. We are particularly interested in candidates whose work bridges subdisciplines within paleontology and Earth and environmental sciences, and who bring additional expertise in field geology, sedimentology, and/or stratigraphy. Taxonomic expertise is expected, with preference for areas that complement, rather than duplicate, existing curatorial strengths; we especially seek individuals with backgrounds in fossil invertebrates or mammals.

The successful candidate is expected to establish an externally funded research program and contribute to excellence in undergraduate and graduate teaching. Applicants must have a Ph.D. at the time of appointment and should submit: (1) cover letter; (2) CV; (3) statement of current and future research plans (no more than four pages); (4) statement of teaching philosophy and experience (no more than two pages); (5) evidence of teaching and mentoring excellence (e.g., evaluations, awards), if available; (6) statement documenting commitment to, and personal achievements in, advancing diversity, equity, and inclusion goals within academia and beyond (no more than two pages); (7) up to four publications; and (8) names and contact information for at least four references. Applicants should contact letter writers in advance of applying. Requests will be sent after all other application materials are submitted. Letters should be received by September 15, 2023.

Information about the Museum and Department can be found at www.lsa.umich.edu/paleontology and www.lsa.umich.edu/earth. To apply please go to https://webapps.lsa.umich.edu/apply/1698, complete the online form, and upload the required application documents as a single PDF file. If you have any questions or comments, please send a message to ummp-earthsearch@umich.edu. The application deadline is September 1, 2023 for full consideration, but applications will continue to be reviewed until the position is filled. Offers for this appointment are contingent on successful completion of a background screening. The University of Michigan is supportive of the needs of dual career couples and is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

Cindy Stauch Museum Business Administrator University of Michigan Museum Paleontology 2264 Biological Science Building (BSB) 1105 N. University Ave. Ann Arbor, MI 48109-1085 Phone: 734-647-2101 Fax: 734-936-1380

Work Schedule: In offce: Monday and Wednsday Remote: Tuesday, Thursday, and Friday

Cindy Stauch <cstauch@umich.edu>

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UMontpellier PlantAdaptationGenomics

Objet: Tenure Track Position - Professorship - Plant adaptation or plant genomics

CPJ Chaire Professor Junior - Tenure track to Professorship - Plant adaptation or plant genomics

University of Montpellier - IRD

The objective of this chair is to develop cutting-edge research in understanding the adaptation of plant species to climate change (temperature, rainfall, CO2, extreme

climatic events) through genomic approaches. Genomics has revolutionized the ability to ask these questions by providing access to genetic and structural variations in often complex genomes. Major advances in plant physiology and breeding have been made in recent years through a better understanding of the development of phenotypes by integrating genomic and climatic variations. In particular, structural variations in genomes are increasingly seen as important factors associated with plant adaptation. The project will make it possible to address two main questions: 1) the role of structural variations in the adaptation of plants, in particular to climate variations, 2) understanding the links between structural variations of genomes and the development of phenotypes, and their relationship to environmental variations.

The candidate will have access to a fully equiped lab (molecular biology, ...), greenhouse facilities, ...

The position is associated with a seed money package of 300keuro

Teaching load adapted for the first 5 years to allow developping a strong research program.

Deadline 4 septembre 2023

Contact: pascal.gantet@umontpellier.fr or yves.vigouroux@umontpellier.fr

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

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UMunich ViralBioinformaticsMultiOmics

Position in biostatistics/bioinformatics with a focus on multi-omics data analysis in the Viral immunopathology laboratory at the Institute of Virology, School of Medicine, Technical University of Munich (TUM). https://innatelab.org The group

We are an international group that conducts cutting-edge research in virology and innate immunity. Our lab is interested in the interaction of viral structures (proteins and nucleic acids) with host factors and cellular responses to viral perturbations, which we study using state of the art omics technologies including transcriptomics, proteomics, metabolomics as well as functional screens based on high throughput imaging. These data are used to establish functional and mechanistic insights in pathogen-host interactions, which describe and predict viral disease progression. Eventually, these data should be used to identify potential treatment options, which will be tested in functional analyses.

Location

We are located in the center of Munich, on the TUM campus Klinikum rechts der Isar.

Tasks and responsibilities

The main mission is to establish bioinformatics and biostatistics analyses of omics data produced by the group and to integrate public knowledge to model viral diseases. This includes:

(1) Analysis of large-scale proteomics, transcriptomics, and imaging data.

(2) Maintaining and improving available analysis pipelines and strategies.

(3) Close collaboration with other team members to ensure transfer of tools and expertise to the group.

(4) Developing new strategies for the integration of multi-omics datasets.

Duration

Fixed term for 2 years with option to extend further.

Starting date

To be discussed, preferably as soon as possible.

Salary

Scientist, scale TV-L E13, depending on experience. https://oeffentlicher-dienst.info/tv-l/allg/ < https://-oeffentlicher-dienst.info/tv-l/allg/ > Candidate profile

The candidate is expected to have a master’s degree, an engineering degree or a PhD in computational biology, biostatistics, applied mathematics or a related field. Experience with data modeling techniques, such as linear regression and clustering is required, knowledge of Bayesian inference is a plus.â€Experience with proteomics data analysis and basic knowledge in mass spectrometry would be appreciated.

The candidate should be familiar with R and Python (Julia is a plus).

Excellent oral and written English skills are necessary.

To apply

Applications (letter of motivation, CV, and names of two referees) should be sent to andreas.pichlmair@tum.de and melissa.verin@tum.de until 31st of Aug 2023.

Melissa Verin <melissa.verin@tum.de>

(to subscribe/unsubscribe the EvolDir send mail to

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

UNottingham EvolutionaryFunctionalGenomics

Assistant Professor in 'Evolutionary Functional Genomics' Closing date 3rd August 2023

The School of Life Sciences (SoLS), University of Nottingham seeks to make a permanent appointment of an Assistant Professor in the area of 'Evolutionary Functional Genomics'. We are interested in applicants using multiomic approaches to address evolutionary questions in physiology, population and comparative genomics and/or developmental biology ("evo-devo"). International applicants are very welcome. We are looking for an outstanding research scientist, with an ambitious vision, who is passionate about teaching and has a collegial attitude. The University of Nottingham is a globally high-ranking, research-led, cosmopolitan institution in the UK Russell Group, with outstanding research facilities and employment conditions. We were 7th in the UK for 'research power' in the 2021 Research Excellence Framework. The School offers a welcoming and dynamic research and teaching environment, with broad strengths across biology.

Your research will address evolutionary questions linking genotypes and phenotypes. We are especially interested in applications from those whose research combines multiomic approaches with 'big data' and/or experimental methods. The post will offer opportunities for shaping the future of genomics in Nottingham.

You will have a Ph.D. or equivalent degree in a relevant subject, a successful track record of achievement and impact with the ability to lead an exciting and innovative research programme. You will have an enthusiasm and aptitude for teaching in the areas of evolutionary biology and bioinformatics at undergraduate and postgraduate levels. We seek collegial applicants who are committed to fostering an inclusive research culture and to the effective functioning of our division and school.

You will be based in the Division of Cells, Organisms and Molecular Genetics (COMGen), which has particular strengths in evolutionary and developmental biology, biotechnology, the genetics of human disease and bioinformatics. Of particular relevance to this post, colleagues in COMGen run the DeepSeq sequencing platform, which has an international reputation for long-read sequencing. The University of Nottingham also has excellent animal house facilities for model vertebrate studies.

SoLS is a large, diverse and supportive unit and provides a formal mentorship scheme and extensive collaborative opportunities. There are further diverse opportunities for collaboration across the faculties of Science and Medicine & Health Sciences, and in the Nottingham University Hospitals NHS Trust.

SoLS holds an Athena Silver SWAN Award, in recognition of our commitment to supporting and advancing gender equality in the Life Sciences. You can read more about this initiative at http://www.nottingham.ac.uk/-life-sciences/documents/athena-swan-silver-award.pdf This role is available on a permanent basis. Hours of work are full time (36.25 hours).

Starting salary is dependent on the level of appointment. Assistant Professorships will start in the range of ï¿½43,155 to ï¿½54,421 per annum.

To apply see: https://jobs.nottingham.ac.uk/-vacancy.aspx?ref=MED276623 .The application process will be anonymous. Applicants should therefore pay special attention to answering the questions in the application form. The closing date is 3rd August 2023. Shortlisting will begin immediately afterwards.

References and CVs will only be taken up after shortlisting. Short-listed candidates will be invited to visit the School, give a seminar and attend a formal interview in person in August/September 2023. We expect the position to be filled by 1st January 2024.

Informal enquiries may be addressed to mary.oconnell@nottingham.ac.uk, matt.loose@nottingham.ac.uk or andrew.maccoll@nottingham.ac.uk. Please note that applications sent directly to these email addresses will not be accepted.

Our University has always been a supportive, inclusive, caring and positive community. We warmly welcome those of different cultures, ethnicities and beliefs - indeed this very diversity is vital to our success, it is fundamental to our values and enriches life on campus. We welcome applications from UK, Europe and from across the globe. For more information on the support we offer our international colleagues, see our Moving to Nottingham pages https://-www.nottingham.ac.uk/jobs/moving-to-nottingham/-international-applicants/international-applicants.aspx . For successful international applicants, we provide financial support for your visa and the immigration health surcharge, plus an interest-free loan

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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

UVermont EvolutionaryBiology

Tenure-track Assistant Professor in Evolutionary Biology

The Department of Biology (http://www.uvm.edu/-~biology/) at the University of Vermont (UVM) is seeking applications for a tenure-track Assistant Professor in Evolutionary Biology, to begin in the fall of 2024. Successful candidates will (a) address important questions in invertebrate or vertebrate evolution and (b) have broad expertise in theoretical and experimental approaches, including but not limited to evolutionary theory, phylogenetics and systematics, and molecular evolution.

All applicants are expected to: 1) hold a Ph.D. degree in biology or in a related discipline; 2) have two or more years of postdoctoral experience; 3) develop a competitively funded research program; 4) teach undergraduate and graduate courses ranging from general biology to an area of the candidate's expertise; and 5) mentor and advise undergraduate and graduate master's and doctoral students, in addition to professional contributions and service. The new hire will also have access for research and teaching to the Zadock Thompson Zoological Collections (https://www.uvm.edu/vtnaturalhistory/-zadock-thompsonzoological-collections).

Candidates must apply online at www.uvmjobs.com. Search for the position using department name (Biology) only.

Please include: - a curriculum vitae - two representative publications - a statement of research focus - a teaching statement describing approach, philosophy and interests - contact information of three references

The reference providers will be emailed information to upload their letters. Review of applications will begin on September 1, 2023, and will continue until the position is filled. Questions may be directed to Brent Lockwood: bllockwo@uvm.edu@uvm.edu.

The University Established in 1791, the University of Vermont is considered a public-ivy and consistently ranked as one of the top public universities in the United States. Our academic programs combine faculty-student relationships most commonly found in a small liberal arts college with the resources of a land-grant research institution. UVM's tradition of equity and social justice extends not only to faculty, staff, and students, but also is reflected in a commitment to environmentally sound and sustainable practices.

The College In the College of Arts and Sciences (CAS), students experience the connectedness and accessibility of a small liberal arts college within a high caliber public research institution. Whether students are pursuing the Fine Arts, the Humanities, Natural Science and Mathematics or Social Sciences, they have a place here, in the College of Arts and Sciences' academic ecosystem. The College of Arts and Sciences highly values the excellence that results when people from different backgrounds and perspectives work, interact, and learn together. In this way, commitment to diversity fosters our educational mission. For our students, it prepares them for life and work ahead: it recognizes that we are a culturally, ethnically, and racially diverse nation, one that is also situated in an increasingly global environment. For our faculty, scholarship and research are increasingly cooperative activities-often crossing national borders-requiring the abilities and skills to work with others often from very different backgrounds. For both our students and faculty, diversity enhances our curriculum, enriches the classroom experience, and fosters the exchange of ideas. As our society, economy, politics, and global interactions become increasingly diverse, so too must our intellectual community of students, faculty, and staff.

The Department The UVM Biology Department is a vibrant and broad, basic science department whose faculty members' research and teaching spans a range of core disciplines including biochemistry, cell biology, genetics, neuroscience, ecology, and evolution. The department values collegiality.

The Community UVM is located in Burlington, Vermont, which is rated as one of the best small cities in the country. The greater Burlington area has an increasingly diverse population of about 125,000 and enjoys a panoramic setting on the shore of Lake Champlain, between the Green Mountains of Vermont and the Adirondack Mountains of New York State. The surrounding area provides an environment rich in cultural, civic and recreational activities. Vermont has a deep history of social activism and political participation. It offers many opportunities for collaborative partnerships in community and state-wide human service and social change organizations in multiple fields of practice, including state agencies.

Establishing a diversity and inclusive culture is a priority at the University of Vermont. In fact, UVM holds that diversity and academic

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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

Other

Are there SYSTAT users

I am trying to figure out if there are still any SYSTAT users out there, or if everyone who wasn't already using SAS has bought into R. When I was in grad school in the '90's, everyone in our group (Univ. of Kentucky) used SYSTAT, but now I can't even find a SYSTAT user community on the internet. (Meanwhile, if I search for R users, it'll help me find R users in my neighborhood!). I want to see if there's anyone walking the Earth who is still using that stats package? Thanks a lot, Lock

PS. I wrote SYSTAT's parent company, but I doubt they're going to get back to me...

Lock Rogers

Associate Professor and Dept. Chair Department of Biology Agnes Scott College

"Rogers, Lock" <lrogers@agnesscott.edu>

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Genome EvolConservationGenetics SpecialEdition

Other: Special Collection on Evolutionary and Conservation Genetics Special Collection - Genome

Genome is organizing a special collection on evolutionary and conservation genetics< https://cdnsciencepub.com/topic/gen-csee-cba-2023 > in collaboration with the Canadian Society for Ecology and Evolution (CSEE)< https://www.csee-scee.ca/ > and Canadian Botanical Association (CBA)< https://www.cba-abc.ca/ > 2023 conference. We invite researchers, both within and outside the conference, to contribute original research articles, brief reports, reviews, mini-reviews, and current opinion submissions covering a wide range of topics, such as:

Evolution of gene expression and regulation Genetic parallelism and constraints on evolution Ecological dimensions of hybridization Comparative genomics and phylogenetics Genomic adaptation and evolution Population genetics, genomics, and transcriptomics Landscape genomics and the effects of environmental change on populations

All publication costs and APC fees will be waived for Canadian contributors from any CRKN-affiliated institution or university< https://cdnsciencepub.com/-

journal/gen/publication-fees >. Other OA waivers also available for non-Canadian authors.

Some additional reasons to work with us:

Impact: Our journal has an impact factor of 3.1 and a speedy yet robust peer-review process (the average day-to-first decision is just under 30 days).

Not-For-Profit: Genome is a not-for-profit journal and revenue is used to support the North American research economy. Some things we're supporting this year include running Early Career Author Workshops for NSERC Create programs and providing funding to organizations including CSPB, International Solanaceae Genome Conference, the 45th Annual International Asilomar Chromatin, Chromosomes, and Epigenetics Conference, and more.

Alberto Civetta <a.civetta@uwinnipeg.ca> Alberto Civetta <a.civetta@uwinnipeg.ca>

SouthAfrica MoleratLabVolunteerResAssist

Volunteer Research Assistant positions at the Kalahari Mole-rat Project

We are looking for several volunteer research assistants to collect long-term data and carry out experiments on a captive population of cooperatively breeding Damaraland mole-rats at the Kuruman River Reserve in the South African Kalahari Desert.

The aim of this project is to investigate the evolution of social behaviour in mammals. Our research examines the influence of genes, hormones, breeding and social factors on individual developmental, growth, behaviours and ageing.

What you can gain from this role?

This position is particularly suited, but not exclusively, for people aiming to carry on their academic education or hold a management position in a research project. Successful applicants will gain experience in animal handling and the collection of observational and physiological data. There is also the opportunity to gain database skills (MySQL) and work on a personal analysis project. This project provides a unique opportunity to work at a vibrant, multinational field site which houses several other research projects. See *https://kalahariresearchcentre.org* < https://kalahariresearchcentre.org > for more details.

Costs of food and accommodation while at the project will be covered.* A contribution towards travel costs will be made (300 Euros/Year)*

Candidate requirements

Applicants should be available for a period of 6 to 12 months, with start date to be discussed during interview. They should be hardworking, enthusiastic, physically fit, and prepared for long hours in the laboratory. A background in behavioural ecology is desired but not essential. Successful applicants will be responsible for data collection (behavioural observations, collection of biological samples), animal handling and be involved in conducting experiments.

If you are interested in this position, send your CV and cover letter stating your availability to molerat.volunteer@gmail.com. Applications will be considered as they come in and shortlisted applicants will be invited for a Zoom interview.

Dave Seager PhD Student Large Animal Research Group Department of Zoology University of Cambridge Downing St Cambridge CB2 3EJ

Dave Seager <daveseager4001@gmail.com>

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

SSE GraduateStudent AdvisoryCommittee

The Society for the Study of Evolution (SSE) Graduate Student Advisory Committee (GSAC) is seeking three new members to join our 2024 cohort!

Join GSAC to:

- Influence SSE decisions

- Be involved in meeting organization and events

- Propose new ideas supported by SSE funds

- Receive travel & lodging support for Evolution meetings

- Learn about the inner workings of societies

- Be a part of a community

Applications are due in one week on July 26. How to apply: https://rb.gy/9wmca About GSAC:

The GSAC represents student and postdoc interests to the SSE Council and facilitates interaction among

students and postdocs, and between students, postdocs, and mentors. Our goal is to be a source of information for students and postdocs during their graduate school career and as they make career transitions, and to provide an early-career perspective to the rest of the SSE council. For example, recently we took a leading role in putting on the successful virtual International Symposia Series and the SSE Caregiver Award.

We strongly encourage those with non-traditional pathways to graduate school, those from non-R1 universities, and those from outside the United States to apply. GSAC is also committed to diverse representation, and we encourage applicants from historically excluded ethnic, gender, and socio-economic backgrounds.

More about SSE: http://www.evolutionsociety.org/ More about GSAC: https://rb.gy/dsjny *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionsociety.org www.evolutionsociety.org SSE Communications <communications@evolutionsociety.org>

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Survey EvolutionNonAcademicCareers

Dear all:

We're working a project surveying people who have trained as evolutionary biologists, and have since moved on to a non-academic career– please could you forward to anyone you know who would fits this description, and might be willing to answer a few questions in an online survey?

Thanks very much Andrea Betancourt, Hildegard Uecker, Claire Asher, Seth Barribeau, Svenja Hammer

Are you someone who trained as an evolutionary biologist or a closely related field, and then moved on to a career off the standard academic track (which we define here as PhD -> postdoc -> independent PI)? Would you like to help those who would like to explore options for careers outside academia?

If so, we would really value 10-20 minutes of your time answering some questions about your career path. We intend to publish the anonymised results and summarise data from this survey in an open access evolutionary biology journal. The goal is to provide information to trainees who would like to explore alternatives to academia, and to the supervisors/advisors/mentors who would like to be better equipped to help them.

Responses are purely voluntary, of course, and will be anonymous. This research project is being led by Andrea Betancourt at the University of Liverpool; please contact aabt@liverpool if you have any questions.

Survey link: https://liverpool.onlinesurveys.ac.uk/-non-academic-careers-survey "Betancourt, Andrea" <aabt@liverpool.ac.uk>

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ToImproveSMBE CallForVolunteersAndProjects

The Society for Molecular Biology & Evolution recently setup an initiative to improve Inclusivity, Diversity, Equity, and Access within the society and the wider field of Molecular Biology & Evolution.

As part of that initiative, funding is available to support projects that aim to address these challenges. We are delighted to announce our 2023 call for proposals to address these issues is now open! Up to $25k is available to fund projects that support these goals. Please see the IDEA website (https:/-/www.smbe.org/smbe/IDEAINITIATIVES.aspx), and check out our call for proposals (http:/-/www.smbe.org/smbe/IDEAINITIATIVES/-IDEAInitiativeCallforProposals.aspx).

Additionally, we are also looking for new committee members to join the IDEA taskforce. If you are passionate about helping improve DEI within SMBE and the field of Molecular Biology & Evolution, then please do check out the call for new members here (http://www.smbe.org/smbe/IDEAINITIATIVES/-CallforNewTaskForceMembers.aspx).

There will be an IDEA symposium at this year's meeting in Ferrara, so if you would like to hear more about this initiative, please do check it out. Many of the IDEA committee will also be attending the meeting, so do feel free to get in touch if you would like to chat.

We look forward to hearing from you!

Ravinder Kanda

(On behalf of the SMBE IDEA committee)

Ravinder K Kanda <ravinder.kanda@gmail.com>

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PostDocs

AdamMickiewiczU HumanSexSelection

Postdoc: Adam Mickiewicz University, Postdoc position, sexual selection in humans

One Post-doc position is now available to work on mechanisms and evolution of post-copulatory mate choice in humans, in a new research group in the Institute of Human Biology and Evolution at Adam Mickiewicz University in Poznań, Poland.

The position is part of a project funded by Polish National Science Centre. The project will test the role of immunocompetence of a male in cryptic female choice on the gamete level, in order to shade a light on post copulatory sexual selection in humans. The main aim of the project is to investigate how the male condition, measured as the ability to recognize pathogens, affects sperm performance, in the post-mating context in humans.

The post-doc will use methods from experimental and evolutionary biology, molecular biology and computational genomics (phenotypic assays, wet-lab, MinION Nanopore sequencing). We seek a collogue with solid knowledge in the principles of molecular and evolutionary biology, genomics/transcriptomics, statistics, keen to work in a team and highly self-motivated. Applicant with a Ph.D (less than 7 years after graduation or close to completion) in biology, biotechnology or related fields, and proven record of productivity and publications in high-impact journals and expertise in (human) molecular genetics, molecular and cellular biology. There is opportunity to learn new skills by participation in dedi-

cated training courses on subjects related to the project and short research visits to institutions involved with the project.

The position is full-time and available for 36 months starting from October 2023. Salary: 9500/month (after taxes ~6500PLN)

You will join a recently started research group led by Aleksandra ukasiewicz. The application should include i.e. professional CV including scientific achievements, list of publications, cover letter summarizing previous work experience and future interests, contact information for two professional references, and be addressed to dr Aleksandra ukasiewicz, a.lukasiewicz@amu.edu.pl

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

Application deadline: 31.08.2023

Candidates will be selected through an open competition, the competition will be open until a suitable candidate is found who meets all the requirements

Any questions? Do not hesitate to contact via email: a.lukasiewicz@amu.edu.pl

Aleksandra ukasiewicz <aleks.lukasiewicz@gmail.com>

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Bordeaux PopulationEpigenetics

We are looking for a candidate to apply to a call for projects from INRAE for a 18-month post-doctoral funding, which could start between October and December 2023.

The candidate will be part of the ANR EPITREE project (https://www6.inrae.fr/epitree-project_eng/) and will conduct population and changes in the methylomes of 2 forest species (poplar and oak). Since these epigenetic data are already available (obtained by Seqcabis - Sequencage Capture Bisulfite), we look for an evolutionary biologist with a good background in population genetics and accustomed to handling large omic datasets in Linux environments. Experience in epigenetics is a plus but is not required.

The candidate will work on the comparison of the 2 studied species: the diversity of the methylome at the population level (on the 2 species) in connection with questions on adaptation (see details of WP2 EPITREE) but also their plasticity in link with environmental constraints related to ongoing climate change (see details of WP3 EPITREE). A study at the level of the orthologous genes identified between the 2 species will also allow an integrative approach of the data on the 2 species (see details of WP4 EPITREE). This work will lead to several publications.

This work will be carried out at Biogeco (INRAE Bordeaux) under the direction of Ludovic Duvaux (ludovic.duvaux@inrae.fr), in conjunction with the project coordinator (Stéphane Maury, LBLGC INRAE Université Orléans) and will involve two other INRAE BioFora laboratories and GDEC.

To apply, the candidate must have defended his.er thesis for less than 3 years in a different laboratory than the host laboratory (UMR Biogeco). The response to the call must be returned before September 07 for arbitration in mid-September, therefore candidates must send their CV and cover letter **before Monday September 04 evening**.

For more information, please contact Ludovic Duvaux (ludovic.duvaux@inrae.fr) and Stéphane Maury (stephane.maury@univ-orleans.fr).

Signature electronique Logos INRAE - BioGeCo < https://www6.bordeaux-aquitaine.inra.fr/biogeco >

PCM-info *Ludovic DUVAUX* *Ingénieur de Recherche* ludovic.duvaux@inrae.fr *UMR 1202 BioGeCo - Ãquipe E4E* Tél. : +33 5 35 38 53 33

INRAE UMR BIOGECO 1202 DOMAINE DE L'HERMITAGE 69 ROUTE D'ARCACHON CS 80227 33612 CESTAS CEDEX

Ludovic Duvaux <ludovic.duvaux@inrae.fr>

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CRAG Barcelona
CropGenomeEvolAncientDNA

POSTDOCTORAL POSITION ON THE BOTIGUE GROUP IN BARCELONA

The Botigue group offers a postdoctoral position through the MSCA-COFUND project AGenT (Agricultural Genomics Transversal) postdoctoral programme.

WHO WE ARE:

The Botigue group of "Genomics of ancient crops and domestication" focuses on the analysis of modern and ancient crop genomes and their wild relatives to study plant domestication and the dispersal of agriculture. We use population genetics and bioinformatics to analyse crop genomes and investigate modern and ancient population structure of landraces and cultivars, identify and quantify the amount of hybridization with Crop Wild Relatives and detect regions of the genome that show evidence of adaptation associated with early crop dispersal and adaptation to new environments. We are located at the Centre for Research in Agricultural Genomics (CRAG) near Barcelona city. You can find more information on the group in the link below: https://www.cragenomica.es/research-groups/-genomics-ancient-crops-and-domestication JOB DESCRIPTION:

We currently have three on-going projects:

– FLAX ANCIENT DNA The origin of domestic flax (Linum usitatissimum) is of particular interest because it is virtually the first crop that has been subject to different selective pressures depending on the end-use of its products. The first domestic forms arose around 10,000 years ago and were used for their oily seeds to produce linseed oil. Around that period the archaeological record shows an increase in seed size when comparing this domestic flax with its wild ancestor pale flax (Linum bienne). Around 6,000 years ago there is evidence in Central Europe of a Neolithic "Textile Revolution" that has been associated with the appearance of specialized flax fiber types for the production of linen. Incidentally, modern flax types display morphological differences depending on whether they are used for oil (linseed oil) or fiber (linen), in the last case having a small seed size and higher stem length and fewer axillary branches compared to the oily flaxes. It has been shown that those traits are under divergent selection in modern types, but it is not known when these trait differences arose during flax cultivation history. It is possible that for a long time the same domestic flax was used to obtain linseed and linen. Alternatively, it is possible that at an early stage differentiated types started to be cultivated separately depending on its end-use, enabling the morphological differentiation. In addition to spreading into Europe, domestic flax also reached North Africa around 6,000 years ago, becoming an important crop in Egypt, where the majority of textiles from the dynastic period and earlier are made of linen. The use of flax to obtain oil has also been reported. This begs the question of whether the cultivation of flax for fiber production in Central Europe and in Egypt arose independently or both have a common origin. RAD-seq based genomic analysis of a collection of comprehensive collection of modern wild and domestic flax specimens found evidence that the adaptation to northern latitudes involved changes in the plant architecture that are compatible with the use of flax for fiber, establishing a link between the expansion to Central Europe and the appearance of fibers. However, this scenario would not explain the existence of fiber flax types in Egypt, where such adaptation to northern latitudes is not advantageous.

Our group has generated whole genome sequence data of 2,000 year-old flax remains from Egypt, in collaboration with Nathan Wales (University of York), Ferran Antolin (German Institute of Archaeology) and the Egyptian Museum in Berlin and we are currently processing more flax remains from Europe. The Postdoctoral AGenT fellow will process and analyse the ancient flax genomes and prepare and process modern flax wild and domestic specimens to investigate the genetic affinities of the ancient specimens compared to the modern ones, look for evidence of hybridization between the wild and the domestic genomic pools and investigate the genomic regions that have been previously associated with selection for fiber production. By the end of the project, a theory for flax domestication based for the first time on genomic data will have been developed, and insights into the origins of fiber-producing flax will have been obtained.

– CHARACTERIZATION OF THE WHEAT FREE-THRESHING TRAIT

The free-threshing phenotype is a tipping point in the history of wheat cultivation, entailing the transition from hulled to easily threshable grains. The ease of the post-harvesting process was most likely one of the key determinants to turn wheat into the staple crop that is nowadays. Until now the characterization of the free-threshing phenotype has revealed three main QTL contributing to the trait, even

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CRAG Barcelona StatisticalPopulationGenomics

AGenT POSTDOCTORAL POSITION AT CRAG IN BARCELONA

A TWO-YEAR postdoctoral fellowship in the group of Statistical and Population Genomics is available at the CRAG Institute under the AGenT program.

The AGenT (Agricultural Genomics Transversal) postdoctoral programme is a Marie Sk'odowska-Curie COFUND Programme (H2020 Grant Agreement No. 945043) at the Centre for Research in Agricultural Genomics (CRAG; Barcelona).

The deadline for this call is AUGUST 27th 2023. Look at https://www.cofund-agent.eu/ This is a competitive programme in the CRAG centre, in collaboration with other partner centres. https://www.cofund-agent.eu/programme-description/ Candidates will have to submit their proposal to CRAG web https://-/recruitment.cragenomica.es/jobs/eight-postdoctoral-fellowships-on-msca-cofund-project-agent A number of Documents are necessary for applying: https://-www.cofund-agent.eu/call-documents-templates/ Look at the time table about the different steps included to win this position. https://www.cofund-agent.eu/-timeline/ THE STATISTICAL AND POPULATION GENOMICS TEAM

The group is lead by Sebastian e. Ramos-Onsins and is focused on: (i) Development of statistics and methods to measure the levels and patterns of diversity in domestic and wild diploid and polyploid species; (ii) Development of bioinformatic tools for the scientific community interested in variability studies (iii) Genome-wide studies of empirical data, focused on understanding the adaptation process under changes in environmental (domestication, climate change) or/and genomic (polyploidization) contexts.

ADDITIONAL FUTURE INTERESTS

We are also interested in studying the differences in the genomic patterns of diversity and fitness distribution of Erysimum (Brassicacea) populations, in collaboration with the University of Granada (Spain). Erysimum incanum maintains diploid, tetraploid, and hexatetraploid populations that are mainly self-pollinated. Genomic studies in different hierarchical population structures, combined with additional ecological, morphological and molecular studies carried out by collaborators, can help to understand the preservation of these populations and infer their adaptability to new environments.

CONTACT

Sebastian E. Ramos-Onsins, PhD Researcher at CRAG

Centre for Research in Agricultural Genomics (CRAG) CSIC-IRTA-UAB-UB Plant and Animal Genomics Program Office 307 Carrer de la Vall Moronta, Edifici CRAG, Campus UAB 08193 Bellaterra, SPAIN

Phone: +34 93 563 6600 Ext 3348 Fax: +34 93 563 66 01

email: sebastian.ramos@cragenomica.es skype: sebasramos https://www.cragenomica.es/research-groups/statistical-and-population-genomics http://-bioinformatics.cragenomica.es/numgenomics/people/-sebas http://github.com/cragenomica/ SebastiÃÂn Ramos Onsins <sebastian.ramos@cragenomica.es>

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CSIRO Canberra HistoricalViralGenomics

CSIRO Postdoctoral Fellowship in Historical Viral Genomics

Advertisement: https://jobs.csiro.au/job/-Canberra%2C-ACT-CSIRO-Postdoctoral-Fellowship-in-Historical-Viral-Genomics/942179710/ Location:Canberra, ACT, AU

Company:CSIRO

The Opportunity

Do you have a PhD in viral genomics or vertebrate epigenomics? Conduct impactful research and collaborate with international researchers. Join CSIRO's National Research Collections Team in this 3-year postdoctoral opportunity!

Viral biodiversity in Australasia will be tracked in historical samples from wildlife biorepositories using cutting-edge museum-genomics technology. Revealing the long-

term history of infections will allow us to identify interfaces promoting emergence and other red-flags for spillover events, including viral prevalence, geographic spread, pathogen diversity, host-switches, or altered host response to infection.

The CERC Fellow will develop a viral biodiversity catalog for the Australasian region, compile a virus-host association database, characterise evolutionarily independent host responses and collaborate with an international team to model zoonotic spillover risk in the Australasian region. Your duties will include: Carrying out innovative, impactful research of strategic importance to CSIRO that will, where possible, lead to novel and important scientific outcomes. Conducting genomic and epigenomic analysis on a range of organisms, with a focus on preserved tissues and other low-quality specimens (taxa will include terrestrial and aquatic vertebrates). Adapting and developing original experimental methods in support of existing and future research. Undertaking genomic and epigenomic data analysis and developing bioinformatic pipelines. Contributing to the maintenance of collection databases and management of associated metadata.

Location:Black Mountain, Canberra, ACT Salary:AU$92k - AU$101k plus up to 15.4% superannuation Tenure:Specified term of 3 years Reference:93671 To be considered you will need:

A doctorate (or will shortly satisfy the requirements of a PhD) in a relevant discipline area, such as viral genomics or vertebrate epigenomics. Please note: To be eligible for this role you must have no more than 3 years (or full-time equivalent) of postdoctoral research experience. Hands-on wet-lab experience with RNA extraction, chromatin isolation and/or other advanced molecular biology workflows. Bioinformatic experience with metagenomic analytical pipelines or chromatin accessibility mapping. A willingness to participate in a 3-6-month international research placement with US leaders in historical pathogen genomics (University of Kansas and University of New Mexico).

For full details about this role please view the Position Description

Eligibility

Less than three years of relevant postdoctoral work experience. Appointment to this role is subject to provision of a national police check and may be subject to other security/medical/character requirements. Candidates must commence employment by 31 January 2024.

Dr Clare HolleleyPhD (UNSW), BSc Adv Hons (USYD) Principal Research Scientist, Australian National Wildlife Collection Project Leader, Environomics Future Science Platform National Collections and Marine Infrastructure| CSIRO clare.holleley@csiro.au| +61 2 62421545 GPO Box 1700 Canberra ACT 2601 Australia Building 17 ANWC, 80 Bellenden Street Crace Australia

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the area that we live and work on across Australia. We acknowledge their continuing connection to their culture and we pay our respects to their

Elders past and present.

CSIROAustralia's National ScienceAgency|csiro.au

Clare.Holleley@csiro.au

EastChinaNormalU VertebrateEvoDevo

Postdoctoral Position (up to 3 years) in vertebrate evo-devo, East China Normal University, Shanghai, China

The laboratory of vertebrate evolutionary developmental biology at the East China Normal University is looking for a postdoc to participate the ongoing projects exploring the evolution and development of several critical life-history features that degenerate during the course of evolution. Degenerated features (vestigiality) are likely formed through formerly functional features decay as a consequence of mutations or shifts of environments or lifestyles. The decay of existing features and the maintenance of vestigial features often receive less attention than the emergences of evolutionary novelties, but the degenerations themselves may have achieved through processes that are different from those mediating the emergence of evolutionary novelties; thus, they are likely to provide novel perspectives to understand evolution.

Candidates with strong backgrounds in developmental biology, evolutionary biology or paleontology are strongly encouraged to apply. Successful candidates should have broad expertise in theoretical and experimental approaches, including but not limited to comparative vertebrate anatomy, phylogenetics and systematics, molecular biology and genetics. The applicants are expected to have: (1) a Ph.D. degree in evolutionary biology, developmental biology, genetics, paleontology or in other related disciplines; (2) one or more years

postdoctoral training experience in developmental biology, evolutionary biology, vertebrate paleontology or other related disciplines are expected; (3) experience in applications of research foundations; (4) at least two publications in decent journals, in addition to other professional contributions and services. Candidates with experience of mentoring graduate students will be strongly encouraged to apply. Starting date is negotiable but prefer early fall 2023.

Candidates are welcome to send (1) CV including a full publication list; (2) research statement in which the candidate is expect to demonstrate his/her research interests, enthusiasms, motivations, his/her skills and ability to conduct university-level research and have the potential to develop independent and original research program in the fields of evolutionary biology, and how these skills and professional abilities align with the key competencies required for the position; (3) one or two representative publications; and (4) contact information of at least three references, directly to Shuo Wang: swang@bio.ecnu.edu.cn. Review of applications will begin immediately once the documents are received, and will continue until the position is filled. Other questions may be directed to Shuo Wang: swang@bio.ecnu.edu.cn.

An initial one-year appointment will be made immediately once the applicant was accepted, and the appointment could be extended up to three years. The applicant may have opportunities to build up broad collaborations not only with other faculties at the East China Normal University but also with neighbors such as the Shanghai Jiaotong University and Fudan University in Shanghai. The successful applicant may also have the opportunities to be promoted up to the level of research associate professor, with competitive salary and benefits from the East China Normal University.

Graduate students at various level are also welcomed to join our laboratory. Students are encouraged in all aspects of our research: from experimental design to execution, data analysis, interpretation and scientific writing. Please consult Shuo Wang: swang@bio.ecnu.edu.cn for more information regarding the possible positions for Ph.D. student and visiting students.

The East China Normal University (ECNU) is one of the top public research universities located in Shanghai, China. Established in 1951, itwas the first national university dedicated to teacher education, and later evolved into a comprehensive research university that is ranking around top 25 in China. The laboratory of vertebrate evolutionary developmental biology at the East China Normal University aims to understand the developmental processes and evolutionary history of several life-history features that degenerate during the course of evolution by employing chicken and frog as the animal models. The state-of-the-art approaches employed in the lab include but not limited to phylogenetic comparative methods, CT imagination and 3D segmentation, gene editing, cell biology and developmental experiments.

The laboratory seeks 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 East China Normal University is an Affirmative Action and Equal Opportunity Employer and does not discriminate on the basis

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FSchillerU ComparativeGenomics

Friedrich Schiller University is a traditional university with a strong research profile rooted in the heart of Germany. As a university covering all disciplines, it offers a wide range of subjects. Its research is focused on the areas Light Life Liberty. It is closely networked with non-research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city.

The German Centre for integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig seeks to fill the position of a

Scientific Employee on the iDiv Flexpool Project: "Comparative genomic and macroevolutionary insights into the evolution of biotic dispersal traits"

commencing on 1 January 2024 or at the earliest opportunity thereafter and limited to 31 December 2025. The position is offered with reservation of possible budgetary restrictions and dependent upon final approval of funding

This is a full-time position with 40 hours per week; place of work is the Evolutionary Ecology (EvE) Group of the Institute of Ecology and Evolution at the German Centre for Integrative Biodiversity Research (iDiv) in Leipzig, Germany.

Background: The German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzigis a National Research Centre funded by the German Research Foundation (DFG). Its central mission is to promote theory-driven synthesis and data-driven theory in this emerging field. It is jointly hosted by the Martin Luther University Halle-Wittenberg (MLU), the Friedrich Schiller University Jena (FSU), the University of Leipzig (UL), and the Helmholtz Centre for Environmental Research (UFZ). For more information please visit:www.idiv.de . The project aims at addressing the question of what traits facilitated the evolution of fleshy (animal-dispersed) fruits, and what genes and genetic pathways may have been involved in the repeated evolutionary transition from dry to fleshy fruits across the angiosperm tree-of-life. The project will combine phylogenetic comparative and genomic tools, relying on large functional trait, phylogenetic and genomic datasets. The project will rely on available (yet-to-be-published) data and will not require field or lab work. The successful candidate will be working at iDiv (Leipzig) but will have the possibility to also work in collaborator institutes, such as Naturalis (Renske Onstein, Netherlands), the Leibniz Institute for Plant Genetics and Crop Plant Research (IPK) (Martin Mascher), and Martin Luther University Halle-Wittenberg (Belinda Kahnt). A team of experts covering all relevant fields will support the successful candidate. An annual budget for travelling (work stays, conferences) and project-related expenses will be available. The successful candidate will integrate intoiDiv's postdoc programand receive support in career development, individual coaching, and other activities.

Your responsibilities:

Independently lead an ambitious postdoc project, including:

Data assembly, filtration, quality control Data analysis Writeup of at least two peer-reviewed manuscripts Presenting results in international conferences

Your profile:

Scientific University degree (Diploma/ M.Sc.) in a project related field PhD in a project-related field (e.g., evolutionary biology, plant systematics, ecology); alternatively a set date for doctoral defence within 3 months of the beginning of the project

At least three years of experience in research (including doctoral studies) and in the publication of scientific results Experience in at least one of the following:

1. genomics 2. comparative analysis; phylogenetic methods

- Background in seed dispersal ecology / animal-plant interactions is an advantage - Hands-on experience in the Unix shell and in R, python or a similar computational environment - Ability to work independently and experience in project management - Excellent English communication skills (spoken and written) - Team-oriented with interest and ability in interdisciplinary research and organizational skills

We offer:

- Work in a dynamic, international, and interdisciplinary environment in the beautiful city of Leipzig (Germany) - Opportunities to develop and advance scientific networks - Flexible working hours and a family-friendly working environment - Participation in our iDiv career support programme - Integration into several workgroups at iDiv and beyond - Attractive fringe benefits, e.g. capital formation benefits (VL), Job Ticket (benefits for public transport), and an occupational pension (VBL) - Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale E13 depending on the candidate's personal qualifications including a special annual payment in accordance with the collective agreement

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GeorgeWashingtonU AdaptationSpeciation

A postdoc position is available in the Zhang Lab at the department of Biological Science, George Washington University, DC, USA (https://linyizhang.weebly.com/).

We are looking for a colleague to help study evolutionary genomics on adaptation and speciation.

This position will primarily be focused on generating, analyzing, and interpreting various types of genomic datasets.

One dataset ready for the candidate to analyze centers about detecting the genomic signature of selection on gall phenotypes in a gall forming insect species *Eurosta solidaginis*.

This project will involve genotype-phenotype association study (GWAS), pool-sequencing data analysis to

identify parallel alleles frequency change across space and time. This position will also involve some field work, collecting gall-forming insects and their interacted plants.

With this position, there is room to develop projects based on personal interest and research strengths. A Ph.D. in Biology or a related field with previous research experience in evolutionary genomics is required.

The ideal candidate will have good programming skills (e.g., R, python, unix), familiarity with large-scale genomic analyses on high performance computing clusters, and good knowledge in the field of adaptation and speciation.

Excellent communication skills and the ability to work independently as well as part of a team are expected. Salary will be commensurate with experience.

Best consideration date is August 28th, 2023. The expected start date is negotiable but can be as early as 10/01/23.

100% remote work is not available. Please submit a cover letter describing interest and previous experience, a curriculum vitae, and the names of at least three references (including email addresses and phone numbers) to this link: https://www.gwu.jobs/postings/104176 . For questions about the position and additional details about the research, please contact Dr. Linyi Zhang (linyi.zhang@gwu.edu).

The department of Biological Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars.

George Washington university is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment based on individual qualifications. George Washington University prohibits discrimination based on age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

Linyi Zhang <linyizhangecnu@gmail.com>

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

Grenoble France BacterialComputationalEvolution

Postdoc in Bacterial and Computational Evolution

Link to the full advertisement: https://perso.crans.org/-frenoy/Frenoy_position_2023.html I am looking for a postdoc or a PhD student to work on projects related to bacterial evolution using computational methods (models and simulations, data analysis, artificial intelligence). See https://perso.crans.org/frenoy/-Frenoy_position_2023.html for possible projects.

Location: Grenoble, France

Starting date: December 2023

Supervision: [Antoine Frenoy](https://-perso.crans.org/frenoy/), Asst. Prof. in evolutionary biology and computer science

Salary: following the university salary grids >$50 euros before taxes depending on previous experience

Duration: 1-3 years

Antoine Frenoy <antoine.frenoy@univ-grenoble-alpes.fr>

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Haifa Montpellier PDF PhD DatePalmEvolutionaryHistory

PhD offer (three years) / Postdoc offer (two years)

Unraveling the enigma of date palm cultivation in the southern Levantine region: Integrating genomic and seed morphometric approaches

Summary of thesis project

The date palm (Phoenix dactylifera L.) holds a crucial position as the cornerstone species within the oasis agrosystems of northern Africa and western Asia. Despite its significance, the origins of date palm diversity remain shrouded in mystery. Notably, distinct genepools have been recognized in West Asia and North Africa.

Positioned at the crossroads of these genepools and civilizations for countless millennia, the Levant emerges as a pivotal region. However, the precise origins of date palm cultivation in the region and the sources of these genepools continue to elude us.

In this compelling research endeavor, our objective is to characterize the date palm populations in the southern Levant, and unravel their cultivation origin. Through the comprehensive analysis of numerous modern and ancient genomes across the region, as well as seed morphometric data from both modern and archaeological seeds, we aim to study the intricate interplay of biological, ecological, historical, and human factors that have shaped the diverse landscape of date palms in the southern Levantine region. This multidisciplinary approach will provide invaluable insights into the demographic and selective processes that have influenced the diversity of date palms, facilitating the development of effective conservation and improvement programs.

Keywords

Date palm (Phoenix dactylifera L.); evolution; domestication; (paleo)genomics; seed morphometrics

Theme

History, evolution and adaptations of crops

Disciplines

Archaeobotany; Population genomics; Paleogenomics; Phylogeography; Population modeling; Seed morphometrics

The date palm (Phoenix dactylifera L.) is the keystone species in the oasis agrosystems of northern Africa and western Asia, creating a climatic environment favorable to the cultivation of other plants (fruit trees, legumes or cereals) in an otherwise hostile environment (Barrow 1998). Its sugar-rich fruit, the date, is a source of subsistence and a commercial commodity.

Since the fourth millennium BCE, date palm cultivation has developed in the Arab-Persian Gulf region (Tengberg 2012). In North Africa, it seems to have appeared later; from the second millennium in Egypt (Tengberg and Newton 2016; Gros-Balthazard et al. 2020), and during the first millennium BCE in Central and Western Sahara (Sterry and Mattingly 2020). Genetic analyses have shown that date palms now grown in North Africa are the result of hybridization between cultivated palms from West Asia and a wild relative, Phoenix theophrasti, now distributed in the Aegean region (Flowers et al. 2019; Gros-Balthazard et al. 2021).

In the Levant, evidence for date palms start to accumulate since the first millennium BCE, reaching a pick during the Roman and Byzantine periods. The diversity of date palm in the region has been strongly influenced by the various civilizations (Gros-Balthazard et al., 2021). But the knowledge on palm dates in the region regarding their cultivation origin, evolutionary history and the connections to human movement in the region remains elusive.

Research objectives

The objective of the thesis is to characterize the palm dates populations in the southern Levant and understand their cultivation origin and evolutionary history.

1) How much genetic variety there is between southern Levant palm dates growing in different regions (e.g., along main roads, around springs and oases)?

2) What is the origin of the cultivated populations? Did these originate from a diffusion of Middle Eastern date palms? What other species of the genus Phoenix have contributed to this gene pool?

3) When was the date palm diffused in the Levant? Are there wild populations in the region?

4) How has the agrobiodiversity of date palms evolved from the beginnings of its cultivation to present day?

5) How did human movements and translocations shape the genetic of the southern Levant palm dates?

Methodology

The PhD candidate will work in an interdisciplinary framework. He/She will study both modern and archaeological date palms through genomics and seed morphometrics.

Population genomics and paleogenomics provide valuable insights into the emergence of crop cultivation. These approaches allow to analyze the genetic diversity of ancient and modern populations of cultivated crops, enabling comparisons between wild and domesticated plants. By studying the genetic profiles, we can identify genetic changes associated with crop domestication and diffusion and infer the timing of these events.

In addition, seed morphometrics plays a crucial role in understanding the emergence of crop cultivation. By analyzing the morphological characteristics of modern and archaeological seeds, we can gain insights

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HalleU Germany SpeciesDelimitationPolylepis

Dear colleagues,

in a joint project with Professor Isabell Hensen, a postdoc position on species delimitation in the high Andean tree genus Polylepis (Rosaceae) is available at Halle University, in collaboration with iDiv.

Application deadline: 18 August, 2023

Further details can be found here: https://-www.verwaltung.uni-halle.de/dezern3/Ausschr/-23_4_6691_23_D.pdf Best wishes Alexandra Muellner-Riehl

Alexandra Muellner <muellner_alexandra@yahoo.de>

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HongKongU EvolutionaryPopulationGenomics

*** Postdoctoral Positions in Evolutionary and Population Genomics ***

We are looking for Postdoctoral Researchers to work on genomics projects on non-model species (mainly birds). The lab has several study systems and active projects addressing genotype-phenotype association, comparative genomics, and population genomics. A key focus of the lab is to use genomic, epigenomic and transcriptomic data to understand the genetic basis and evolution of phenotypic traits. Collaborative international projects are already underway, ensuring a quick and productive start. The Postdoctoral Researchers will have extensive opportunities to interact with collaborators and involve in different evolutionary and population genomics projects.

Duration: The initial appointment is for one year, with renewal based on performance. Funding is available for two years. This is a full time appointment.

Qualifications: Applicants must have completed a PhD (or will have completed a PhD before the position start) in bioinformatics, genomics, evolutionary biology, population genetics, or a related discipline, with a demonstrated record of research achievement (via publications). They will also be proficient with programming in a scripted language (e.g. Python, Perl, or R). Experience with shell scripting and computing cluster environments and/or experience working with whole genome datasets in population or comparative genomics will be beneficial.

Working Environment: The University of Hong Kong is an English-speaking institute and one of the most international universities in Asia. It has a rank of 31 according to the Times Higher Education World University Rankings 2023.

Start Date: Flexible in 2024.

Salary: A highly competitive salary plus annual leave and medical benefits will be offered.

How to apply: Please send a CV (with contact information for three references), cover letter describing research interests and skills, and copies of publications to Simon Sin (sinyw@hku.hk). Review of applications will begin immediately and continue until the position is filled.

Simon Sin Assistant Professor School of Biological Sciences Kadoorie Biological Sciences Building The University of Hong Kong Pok Fu Lam Road, Hong Kong Lab website: www.simonywsin.com <sinyw@hku.hk>

sinyw@hku.hk

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JagiellonianU AmphibianImmunogenetics

Postdoc position in Amphibian Disease Ecology, Evolution & Immunogenetics

We are seeking for a postdoctoral researcher in amphibian disease ecology, evolution, and immunogenetics to work in the Genomics and Experimental Evolution group at the Institute of Environmental Sciences, Jagiellonian University, Krakow, Poland. The position is part of the National Science Centre (NCN) grant “The role of blood parasites in emerging disease dynamics and biodiversity loss in amphibians”.

Background. Understanding interactions between pathogens and between pathogens and hosts is essential to infer the evolution of disease dynamics, host immu-

nity, and pathogen virulence. Such knowledge is crucial in endangered taxa such as amphibians, where emerging infectious diseases play a major role in their dramatic decline.In this project, we propose to assess the role of hematic parasites in the dynamics of emerging diseases and the impact on the host immune system (in particular MHC genes).

Job description. The postdoc will contribute to the following aims of the project:i) to discover the interactions between hematic and emerging pathogens; ii) to assess the adaptive potential of amphibians to respond to pathogen threats in infected populations; iii) to investigate the potential relationship between parasite infections and MHC diversity. The position will involve bioinformatics and statistical modelling. (S)he will work together with the PI and other team members, including a network of international collaborators.

Requirements. The suitable candidate will have a PhD degree obtained no earlier than in 2017 (extensions for parental leave apply), be fluent in English and have a strong interest in disease ecology and evolutionary biology. The candidate should have experience in bioinformatic analysis of NGS, mixed models, and MHC diversity; a background in blood parasites or emerging amphibian diseases will be an advantage. Employment: full-time research for two years. Salary: approx. 7800 PLN gross (before tax, including benefits).

How to apply. The application—(one single pdf file) should include: cover letter, CV with the list of publications, contact details of two referees and a scan of the PhD certificate. Please send the application by e-mail to: gemma.palomar@uj.edu.pl by 30 October 2023 at the latest. Selected candidates will be invited for live or Skype interviews. Preferred starting date December 2023.

Gemma <gemma.palomar.garcia@gmail.com>

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KAUST SaudiArabia Bioinformatics

Postdoc: Postdoctoral Fellowship in Bioinformatics for Assisted Evolution in Corals

Description: Join the Coral Symbiomics group at King Abdullah University of Science and Technology (KAUST) in Saudi Arabia (https://-coralsymbiomics.kaust.edu.sa) to study temperature resilience in reef-building corals. We are currently seeking a highly skilled and motivated bioinformatician to contribute to our cutting-edge research on assisted evolution in corals.

About the Position: As a postdoctoral fellow, you will play a key role in investigating the genomic aspects of temperature resilience in corals and the potential of selective breeding to increase their temperature resilience. This exciting opportunity offers a two-year initial appointment with the possibility of extension based on exceptional performance.

Responsibilities:

ï¿½ Utilize your expertise in genome assembly, GWAS, population genomics, and related fields to analyze large-scale genomics data.

ï¿½ Collaborate closely with our multidisciplinary team to identify genetic markers associated with thermal resilience.

ï¿½ Contribute to the development and implementation of novel bioinformatics pipelines and tools for coral breeding programs.

ï¿½ Apply your skills in programming, databases, and Unix/Linux to process and analyze high-content data.

ï¿½ Work with bioinformatics software, including assemblers, mappers, and general tools, for next-generation sequencing data analysis.

ï¿½ Publish research findings in high-impact scientific journals and present at international conferences.

ï¿½ Mentor and supervise graduate students within the research group.

Qualifications:

ï¿½ Ph.D. with an emphasis in bioinformatics, population genomics, evolutionary genomics, or related fields.

ï¿½ Strong understanding of basic biology, genomics, high-content data analysis, and genome databases.

ï¿½ Proficiency in programming languages such as Python or Perl, as well as R for statistical analysis is preferred.

ï¿½ Experience with bioinformatics pipelines, including assemblers, mappers, and general tools.

ï¿½ Knowledge and experience in next-generation sequencing pipeline analysis.

ï¿½ Familiarity with Unix/Linux operating systems and proficiency in working with databases.

ï¿½ Excellent written and verbal communication skills in English.

ï¿½ Ability to work collaboratively in a diverse research environment.

Benefits:

ï¿½ Highly competitive tax-free salary commensurate with qualifications and experience.

ï¿½ Accommodation and attractive on-campus amenities within the KAUST community.

ï¿½ Yearly repatriation allowance.

ï¿½ Comprehensive health insurance coverage.

About KAUST: King Abdullah University of Science and Technology (KAUST) is a prestigious public research university situated in Thuwal, Saudi Arabia. Our core campus spans over 36 square kilometers and is located on the picturesque Red Sea coast. It features state-of-the-art research facilities, residential complexes, and recreational amenities.

About the KAUST Reefscape Restoration Initiative: The postdoctoral fellow will also have the opportunity to contribute to our projects on assisted evolution in corals as part of the KAUST Reefscape Restoration Initiative. This initiative aims to restore and conserve coral reef ecosystems through innovative research and conservation strategies. More information about the initiative can be found on the website: https://-www.kaust.edu.sa/reefscape/index.html . *To Apply:* Interested candidates should submit a cover letter summarizing their qualifications and interests, a curriculum vitae (CV), and the contact information of two referees to manuel.aranda@kaust.edu.sa. Please ensure that your application meets the outlined requirements for consideration.

We appreciate your interest in joining our team and look forward to reviewing your application.

*Manuel Aranda Lastra * Professor Coral Symbiomics Lab Red Sea Research Center Building 2, 2216, 4700 KAUST Thuwal 23955-6900, Kingdom of Saudi Arabia Mobile: +966 544700Warning: base64 decoder saw premature EOF! 661 *@CoralSymBiomiX* *https://-coralsymbiomics.kaust.edu.sa*

Manuel Aranda Lastra <manuel.aranda@kaust.edu.sa>

Manchester UK AntimicrobialResistanceEvolvability

Dear Evoldir community,

I am currently advertising a postdoc position to work on a BBSRC-funded project using experimental evolution to investigate antimicrobial resistance evolvability. The position is for up to 3 years and is based at The University of Manchester in the Division of Evolution, Infection and Genomics (EIGEN). The successful applicant will also become a member of a vibrant cross-faculty community of microbial ecologists and evolutionary biologists known as MERMan (Microbial Evolution Research Manchester: https://sites.manchester.ac.uk/merman/). The closing date for applications is *7 August 2023*.

Please see full details of the job advert here: https:/-/www.jobs.manchester.ac.uk/Job/JobDetail?JobId=-25787 We are seeking a highly motivated and skilled Research Associate in experimental evolution/genomics to investigate genomic factors influencing antibiotic resistance evolution and evolvability in bacteria. The BBSRC-funded post is a 1 FTE (full time) fixed term position until 29/06/2026, with a start date as soon as possible (to be negotiated with candidates). A PhD in Evolutionary Biology, Microbiology (with an evolution focus) or a related field is required. The ideal candidate also has a record of publications, conference presentations, and effective communication.

Essential skills include extensive practical experience in microbial experimental evolution and proficiency in general microbiology and molecular biology techniques. Strong experience in experimental design, statistical analysis, and managing large datasets is required. Experience with bioinformatics tools is vital. Desirable skills include experience in antibiotic or antimicrobial resistance research, Pseudomonas biology, and bacterial genomics. Experience with genome engineering techniques (i.e. CRISPR-Cas) is also advantageous.

The Research Associate will join a vibrant community of microbial evolutionary biologists and ecologists. Collaborating with internal/external teams (including visits to collaborators to learn key techniques) is expected. This role offers an exciting opportunity to contribute to cutting-edge research on antibiotic resistance evolution and evolvability.

Manchester is a vibrant and cosmopolitan city offering a

rich cultural experience, with diverse communities and a flourishing LGBTQ+ community. The city's architectural charm is evident in the juxtaposition of neo-Gothic, modernist and repurposed industrial buildings. Furthermore, the city's has a thriving arts scene, with numerous independent galleries and live music venues. Additionally, Manchester's proximity to the stunning Peak District provides access to natural beauty and outdoor pursuits.

Location: The University of Manchester, Manchester, UK *Starting date:* ASAP (to be negotiated with successful candidate) *Supervision:* Danna Gifford (https://dannagifford.com) Lecturer in evolutionary microbiology *Salary:* UoM Grade 6 ï¿½35,308-ï¿½43,155 (set by UCU) *Duration:* up to 3 years

All the best, Dr Danna Gifford danna.gifford@manchester.ac.uk Lecturer (Research & Teaching) in the Division of Evolution, Infection & Genomics School of Biological Sciences | Faculty of Biology, Medicine & Health | The University of Manchester https://dannagifford.com Danna Gifford <danna.gifford@manchester.ac.uk>

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OxfordU HostPathogenGenomics

We are seeking to hire a post-doc to investigate paired host and pathogen genomics at University of Oxford.

Project description: The aim of the project is to use paired host-pathogen genomics to understand why patients respond differently to infections. We are sequencing host and virus genomes from large patient cohorts infected with HCV, HBV and SARS-CoV-2. These cohorts are very well characterised and many clinical phenotypes and biomarkers are measured on all individual. The aims of this study are (1) to identify host polymorphisms that drive evolution of the virus, (2) identify host and virus genetic polymorphisms that drive differences in clinical phenotypes and measured biomarkers independent of each other and (3) detect interactions between host and virus genetics that drive the differences in clinical phenotypes and measured biomarkers.

You will be educated to PhD level or be close to completion with a quantitative component, particularly population genetics, bioinformatics, computational biology, statistics or probabilistic machine learning and computer science. This, together with some relevant experience of working with large genotyping or sequencing data sets and contributing to scientific papers as evidenced by publications are essential for this role.

You will have the ability to work both independently and as part of a team to manage the day-to-day running of a research project. It is essential that you demonstrate that you have the ability to independently plan and manage a research project, including a research budget. An understanding of the genetics of infectious disease is desirable.

Instructions for the application: The application has to be made through the University of Oxford portal. The link is provided below. Application deadline: 8 August 2023, if position is not filled we will re-post the position.

Type of employment: Fixed term

Link for the advert: https://www.nature.com/-naturecareers/job/12803268/postdoctoral-research-scientist-in-host-pathogen-genomics-of-viral-infections/ For further information about the position please contact: Dr. Azim Ansari, azim.ansari@ndm.ox.ac.uk

Azim Ansari <azim.ansari@ndm.ox.ac.uk>

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PennsylvaniaStateU EvolutionaryGenomics

https://psu.wd1.myworkdayjobs.com/-PSU_Academic/job/Penn-State-University-Park/-Postdoctoral-Scholar—Lasky-Lab_REQ_0000018629-1
The Lasky Lab at The Pennsylvania State University < https://psu.edu > is seeking a Postdoctoral Fellow with expertise in evolutionary or ecological genomics. Primary responsibility of the Postdoctoral Fellow will be to identify putative climate-adaptive and parasite resistance alleles in sorghum, a key global food security crop, using whole genome resequencing, evolutionary analyses, and ecological modeling. The Postdoctoral Fellow will also collaborate with a team of postdocs at Penn State, Colorado State University and CERAAS-Senegal on field and controlled-environment experiments to test hypotheses on the adaptive value of these alleles; and contribute to development of molecular breeding technology that will allow

African breeding programs to deploy these alleles in climate-resilient varieties. The Postdoctoral Fellow will prepare publications for high-quality peer-reviewed journals, present findings at international scientific conferences, and receive mentoring to advance their scientific career. The successful applicant will be committed to rigorous application of the scientific method for genetic discoveries; and equally committed to translating these discoveries for global food security under climate change. The Postdoctoral Fellow will have strong communication skills (written and oral) and commitment to inclusion that will allow them to contribute to and/or lead collaborations across a diverse international team of scientists.

The position is supported for 4 years, as part of a $25M investment on allele mining for climate adaptation funded by Bill and Melinda Gates Foundation and led by CIMMYT. The successful applicant will hold a PhD in genetics, plant biology, evolution, or related fields.

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

Employment with the University will require successful completion of background check(s) in accordance with University policies.

EEO is the Law < https://www.eeoc.gov/-sites/default/files/migrated_files/employers/-poster_screen_reader_optimized.pdf >

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applications without regards to race, color, religion, age, sex, sexual orientation, gender identify, national origin, disability or protected veteran status. If you are unable to use our online application process due to an impairment or disability, please contact 814-865-1473.

Department of Biology Pennsylvania State University

laskylab.org < http://www.laskylab.org >

“Jesse R. Lasky” <jrl35@psu.edu>

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PurdueU MechanismsofAdaptation

The Oakley lab (in collaboration with the Dilkes Lab)at Purdue University is looking for a postdoctoral scholar for an NSF funded project connecting the genotype-phenotype-fitness map for an adaptive plastic response to seasonally freezing environments. Cold acclimation is common in plants throughout the temperate zones and conditions winter freezing tolerance. This is triggered by cool autumn temperatures and involves dramatic metabolic and physiological changes. These changes are likely to be energetically costly, particularly in cool but non-freezing environments, which can lead tostrong fitness trade-offs across environments. Disruption of seasonal patterns by climate change may exacerbate the negative fitness consequences of this cost, and a greater understanding of the mechanisms of this trade-off may help us understand the potential maladaptive consequences of climate change.

This project is a unique opportunity to investigate the effects of a naturally-occurring sequence polymorphism in a key regulatory gene on molecular and organismal phenotypes that impact fitness in contrasting conditions that mimic the native environments. A loss of function allele in the transcription factor CBF2 explainsecotypic differences in cold acclimated freezing tolerance, and long term-field study suggests this locus is responsible for a genetic trade-off. The project includes manipulation of CBF2 using near isogenic and genetically engineered lines (in the wild genetic backgrounds) with longitudinal sampling for RNAseq, metabolomics, plant growth, and fitness measurements. Development of new directions building on these themes, and/or developing new directions for existing long-term datasets is strongly encouraged. There is a vibrant community of interdisciplinary plant biologists (https://ag.purdue.edu/cpb/faculty/ at Purdue, providing ample opportunity for interaction and collaboration. The postdoc will be expected to lead: Growth chamber experiments simulating parental environments to measure expression, metabolites, traits, and fitness; Tissue collectionand sample preparation for RNAseq and metabolomics; Transcriptome assemblyand differential expression analysis (including allele specific expression); Analysis of metabolite, phenotype, and fitness data. Creation of lines with loss of function mutations in CBF2 in different ecotypic backgrounds using CRISPR-Cas9; Manuscript preparation; supervision of a technician and undergraduate assistants: and

oversight of research related activities in the lab.

A PhD in ecology & evolution, genetics, plant biology, or related discipline is required. Experience with the analysis of genomic data and/or other computational/quantitative tools is preferred. The ideal candidate will have strengths in multiple areas described above. This is initially a one-year appointment, with the possibility of a one-year extension. Ideal start date is Sept. 5, 2023, but this can be postponed 1-2 months if necessary.

Applicants should send (as a single PDF attachment): CV, a letter summarizing research interests, accomplishments, and fit to the lab and project, and the names and contact information for two professional references. Review of applications will begin August 4, 2023, and will continue until a suitable candidate is found.

Chris Oakley

oakleyc@purdue.edu

https://btny.purdue.edu/labs/oakley

SorbonneU NetworksBioinformaticsEvol

Dear colleagues, Please find below the description of a postdoctoral position in bioinformatics and evolution to ≪ track the evolution and ageing of 'evosystems' through network-modelling of the dynamics of ecosystems shaped by selection on differential persistence".

The ECOEVONET project, funded by the Sorbonne University (Paris, France), focuses on the evolution and ageing of ecosystems. In collaboration with Eric Bapteste and Fabrice Not, the postdoctoral fellow, skilled in bioinformatics, with an interest for evolution, ecology, networks and possibly philosophy of sciences, will construct and analyse multilayer networks that approximate the dynamics of interactions within ecosystems, based on -omics time-series, to quantify what we would call an 'ecosystemic fitness' using original network metrics.

One the key idea of the project is to track whether networks gain or lose in 'persistence fitness', e.g. robustness or resilience with time, and under what conditions one might consider parts of ecosystems as 'units of selection' that might be sensitive to various changes in selective pressures, and therefore evolve and age.

Indeed, with environmental changes, better modelling and predicting natural ecosystems dynamics is critical from an ecological and a societal viewpoint. Ecosystems are defined as interconnected, diverse biological communities embedded in an abiotic compartment, connected to other ecosystems by spatial flows of energy, materials and information. Ecosystems are traditionally studied by ecologists, who seek causal relationships between environmental conditions and ecosystemic properties, e.g. between ecosystem stability and species richness. By contrast, this project introduces an original network-based approach to import evolutionary-thinking into ecosystem studies, with potential to make new paradigms about ecosystem dynamics emerge. Due to direct and indirect interactions between resident and migrating lineages evolving in ecosystems, ecosystems present local and, sometimes, global homeostasis-like properties: stability, cyclicity and resilience, evoking 'ecosystem phenotypes'. In organisms, such homeostatic properties are often considered as adaptative, derived from natural selection. In this project, we will hold that it can be scientifically fruitful to consider that, to some extent, like organisms, ecosystems evolve, i.e. selection acting at the level of ecosystems may explain some of their homeostatic properties.

The overarching goal of this project is to support our proposed unifying concept of 'evosystems' by providing evidence for natural ecosystems evolution and to assess ecosystem fitness. Evosystems correspond to 'ecosystems phenotypes' that behave as if they evolved by selection, and could further evolve due to evolutionary constraints. Typically, evosystems could become maladapted, when selective pressures acting at the level of ecosystem change, or evosystems could age, when selective pressures supporting an ecosystem robustness/resilience weakens with time. To achieve its goal, this project will take advantage of recent progresses in environmental -omics approaches that offer a holistic perspective on critical, under-appreciated sources of "ecosystem homeostatic properties": microbial interactions, and of multilayer network studies, because homeostasis-like properties emerge from interaction networks whose degree and patterns of connectivity critically shape ecosystem dynamics. On a theoretical level, this project will deeply integrate ecological, evolutionary and philosophical perspectives, and provide original tools to track natural ecosystem fitness, enhancing the toolbox of ecosystem monitoring.

The candidate will work within a consortium of friendly bioinformaticians (Philippe Lopez, Eduardo Corel), evolutionary biologists (Eric Bapteste), biostatisticians (François-Joseph Lapointe), and marine ecologist (Fabrice Not). She/he will be hosted at the Université Pierre et Marie Curie (Paris VI) in the center of Paris, France.

Ideally, the candidate should have a strong interest for evolutionary biology or ecology, microbial evolution and a good background in bioinformatics, or graph theory. The position can start by September 2023, so interested candidates are invited to apply immediately. This is a two year postdoc position, which could thus be opened until late august 2025, and there is possibility for further funding after that period.

The salary is determined by the rules of Sorbonne-University for post-doctoral fellows, and will be within a window of 80 000 euros/2 years.

Applicants are requested to send a detailed resume, a motivation letter, a pdf copy of their PhD thesis, and the names of two scientific referees to : ep-bapteste[at]gmail.com < http://snv.jussieu.fr > The first round of applications will be closed August 15th, 2023.

Dr. Eric Bapteste 7, quai Saint-Bernard, Université Pierre et Marie

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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 LosAngeles PopulationGeneticsMicrobiome

Postdoctoral research position at UCLA in population genetics/evolutionary dynamics of the microbiome

A postdoctoral research position is available in the lab of Dr. Nandita Garud in the Department of Ecology and Evolutionary Biology at the University of California, Los Angeles. We are broadly interested in understanding the evolutionary dynamics of natural populations with a current focus on microbiomes. The lab develops statistical and computational methods to gain insight into evolutionary processes from population genomic data.

The successful candidate will have substantial input in the specific nature of their research project. However, the project should broadly fit within the lab's goals of learning about evolution in natural populations and evolutionary dynamics in the microbiome. Applicants with an interest in machine learning are also encouraged to apply.

Additional information can be found at: http://-garud.eeb.ucla.edu The Ecology and Evolutionary Biology department at UCLA offers a cutting-edge research environment with many opportunities for collaboration. The lab will have affiliations with the Microbiome Center at UCLA and the Institute for Quantitative and Computational Biology at UCLA.

Candidates should have a Ph.D. in biology, genetics, computer science, bioinformatics, statistics, computational biology, or a related field. A background in population genetics/evolutionary genomics is preferred. As this is a computational position, proficiency in programming in R, Perl, or Python, and shell scripting is essential. Preference will be given to candidates with a strong publication record, evidence of substantial research productivity, and ability to successfully communicate scientific information.

Review of applications will begin immediately and will continue until the position is filled.

Interested candidates should send to Nandita Garud at ngarud@ucla.edu the following:

- A letter describing your background and motivations pursuing a postdoc in the Garud Lab

- CV that includes a brief 1-2 sentence description of your contribution to past research projects. - Contact information for two referees who can provide references upon request

- A description of your programming background.

- A description of your evolutionary coursework

- brief descriptions (e.g. 2 sentences each) of possible project ideas

The University of California is an equal opportunity/affirmative action employer.

Nandita Garud, PhD Assistant Professor Department of Ecology and Evolutionary Biology University of California, Los Angeles 621 Charles E. Young Drive South Los Angeles, CA 90095-1606 Lab website: https://garud.eeb.ucla.edu "ngarud@g.ucla.edu" <ngarud@g.ucla.edu>

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UCPH Copenhagen PalaeoproteomicsHumanEvolution

Postdoc in Palaeoproteomics

Globe Institute Faculty of Health and Medical Sciences University of Copenhagen

Link to the advertisement: https://jobportal.ku.dk/-videnskabelige-stillinger/?show=159695 We are looking for a highly motivated and dynamic researcher for a 2-year postdoctoral position in palaeoproteomics to commence on 1 October 2023, or as soon as possible afterwards. The position is part of the ERC funded project PROSPER, which aims to elucidate the evolutionary relationships between Middle and Late Pleistocene hominins via the analysis of ancient proteomes. The position is based in a research group composed of evolutionary and molecular biologists, palaeoanthropologists and archaeologists with a fascination for human evolution research.

Our research The Biomolecular Palaeoanthropology group within the Section for Molecular Ecology and Evolution is a recently established research group at the Globe Institute. We study human evolution across the last one million years, addressing questions of relevance at the intersection of biology, palaeoanthropology, and archaeology. In particular, we have strong interests in 1) understanding the phylogenetic and population genetic relationships between past hominins within this period, 2) exploring the biomolecular content of the hominin skeleton in life history frameworks, and 3) recovering behavioural information contained in zooarchaeological datasets through biomolecular approaches. We develop and utilize a range of biomolecular methods, primarily the analysis of ancient proteins through protein mass spectrometry. We strive to integrate the generated insights with additional lines of (bio)molecular and archaeological evidence. Further information on the research group can be found at https://globe.ku.dk/research/-evogenomics/welker-group/. Don't hesitate to reach out to Dr. Frido Welker or other group members for (in)formal questions!

Your job We seek an enthusiastic, creative individual with a strong background in evolutionary biology, palaeoanthropology, the archaeological sciences, or associated disciplines. You will join our research group in the context of PROSPER, an ERC Starting Grant project aimed at developing new analytical approaches to unravel the phyloproteomic relationships between several Middle and Late Pleistocene hominin populations, including the emergence and dispersal of our own species. The project involves collaboration with a range of international partners from various continents and scientific backgrounds. We are in the process of generating a range of skeletal proteomes from hominin fossils distributed across the last 1 million years, as well as associated proteomes from animal fossils. In addition, PROSPER aims to generate comparative datasets dedicated to proteomic and phylogenetic method development for a range of palaeoanthropological research questions. The ideal candidate has an interest in contributing to the data analysis components of our research, including the phylogenetic analysis of ancient skeletal proteomes, or further development of our laboratory-based proteomic data generation. Based on mutual agreement, there is the opportunity for exploring individual research interests and initiatives within the PROSPER project.

Essential experience and skills:

- You have, or will soon have, a PhD in (human) population genomics, archaeogenetics, proteomics, archaeological sciences, or a related field. - You either have skills in 1. computational data analysis associated with genomic/proteomic datasets or 2. experience in ancient biomolecular research (including wet-lab work). - The ability to address novel research questions in a creative manner. - You have an active interest in human evolution and human population history. - Proficient communication skills and a demonstrated ability to work independently as well as in teams. - Excellent English language skills.

Desirable but not essential experience and skills:

- Experience with the writing of computational pipelines, including working on an HPC cluster. - Knowledge of proteomics/protein mass spectrometry or population genomic datasets. - A background and interest in ancient biomolecules. - You have an excellent scientific track-record, including publication(s) in high-quality, peer-reviewed international journals.

About Globe Institute The Globe Institute is part of the Faculty of Health and Medical Sciences at the University of Copenhagen. The Institute's main purpose is to address basic scientific questions through interdisciplinary approaches. The institute operates at the intersection of natural and medical sciences and the humanities. Information on the institute can be found at: https://www.globe.ku.dk/ .

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

UEdinburgh ComparativePlantGenomics

Postdoctoral research position in comparative plant genomics, Edinburgh

We are looking for a postdoctoral research associate to perform comparative genomic analyses of British native plant species. This position is part of the Darwin Tree of Life project to document the genomes of all British and Irish species. The post holder will conduct bioinformatic analyses to understand genomic variation from new and emerging high quality reference genomes for diverse plant species.

The deadline for applying is the 25th July. The full job advert is available here: https://t.co/PoG5HkXpDk The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. Is e buidheann carthannais a th' ann an Oilthigh DhÃ¹n Ãideann, clàraichte an Alba, àireamh clàraidh SC005336.

Alex Twyford <Alex.Twyford@ed.ac.uk>

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UGeneva BioinformaticsReptilian-SkinColoration

The LANE laboratory (www.lanevol.org) at the University of Geneva (Switzerland) is seeking a creative and highly motivated PostDoc bioinformatician to work on reptilian skin coloration.

Description: In the context of a highly multidisciplinary study investigating the development of skin colour patterns in snakes and lizards, we are looking for a bioinformatician active in genome analysis. The aim of the project is to perform genome mapping, as well as differential gene expression analyses based on RNAseq, for different color morphs of corn snakes and leopard geckos. The successful candidate will interact with a multidisciplinary team of physicists, computer scientists and biologists and will have access to the high-performance CPU and GPU clusters of UNIGE. The working language of the laboratory is English.

The team's projects are interdisciplinary, and aim at understanding the genetic determinism of skin colour patterns (especially in snakes and lizards) but also skin appendages (scales, hair, and spines) in amniotes. Besides standard molecular biology methods, we use confocal and light-sheet microscopy imaging, electron microscopy, mass spectrometry and deep sequencing. The University of Geneva (UNIGE) is highly-renowned for its research and is among the best universities in the world. Geneva is an international city occupying a privileged geographical situation.

Profile requirements: - PhD in bioinformatics within the last five years - Strong inner drive, independence, willingness to work in a highly interdisciplinary team - A good level of spoken and written English is essential - A background in evolutionary biology is preferred, but not required.

Application: Applicants are invited to send (combined into a single PDF document): - a motivation letter with a short statement of research interests - a CV - two references (full address, incl. email and phone) to Dr. Athanasia Tzika: athanasia.tzika@unige.ch

Application deadline: 31 Aug 2023

Starting date: to be defined

The duration of the contract is one to two years.

References: Tzika, Ullate-Agote, Zakany, Kummrow & Milinkovitch Somitic positional information guides self-organized patterning of snake scales Science Advances (2023)

Ullate-Agote & Tzika Characterization of the Leucistic Texas Rat Snake Pantherophis obsoletus Frontiers in Ecology and Evolution (2021)

Ullate-Agote, Burgelin, Debry, Langrez, Montange, Peraldi, Daraspe, Kaessmann, Milinkovitch & Tzika Genome mapping of a LYST mutation in corn snakes indicates that vertebrate chromatophore vesicles are lysosome-related organelles Proceedings of the National Academy of Sciences (PNAS) (2020)

Athanasia Tzika <Athanasia.Tzika@unige.ch>

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UHelsinki HostSymbiontInteractions

The Insect Symbiosis Ecology and Evolution (ISEE) Research Group at the Organismal and Evolutionary Research Program (OEB), the University of Helsinki, Finland invites applications for a

Doctoral researcher in Host-Symbiont interactions

Starting in September 2023, or as agreed with the candidate. The doctorate researcher will be offered a 4-year contract.

The project is funded by the Finnish Research Council. We are aiming to characterize the diversity and prevalence of host-symbiont-virus interactions already in place naturally in diverse pollinator species of the Baltic region, and to experimentally test symbiont-induced resistance against pathogens in these insects. Virus control strategies using microbial symbionts are feasible, and we aim to further develop and provide such innovative, sustainable, and environmentally friendly approaches to the conservation of pollinators in our agricultural landscapes. The tasks will include field work, molecular work, and both viral and bacterial community analyses, as well as writing manuscripts. There are opportunities for the doctoral researcher to develop their own research ideas.

The project is in collaboration with

Prof. Thomas Walker from Warwick University, UK;

Prof. Dalial Freitak from Graz University, Austria;

Prof. Johan Ekroos from University of Helsinki, Finland.

Candidates with a MSc degrees in Ecology and Evolutionary Biology, Molecular Biology, Microbiology, Bioinformatics or similar are strongly encouraged to apply. For this position previous experience in developing, conducting or analyzing meta-barcoding or community data will be an advantage. The candidate should also have organization skills and be able to work independently and within a team of diverse researchers.

The ISEE research group currently includes a doctoral researcher, a postdoc, a bioinformatician and several undergraduate students. Please see here for further information about the hosting research group: www.anneduplouy.net and the PI: https://researchportal.helsinki.fi/en/persons/anne-duplouy
The salary is defined in accordance with the University salary system for teaching and research personnel (ca. 2300-2500 euros/month, depending on the appointee's qualifications and experience). The position is for a fixed-term of 4 years. A trial period of six months will be applied. The position will be filled as soon as possible, or as agreed with the selected candidate. The University of Helsinki offers comprehensive services to its employees, including occupational health care, supported access to high quality sports facilities, and opportunities for professional development. There are also several funding opportunities that the candidate may consider to acquire their own funding with full support from the PI.

According to the system of the University of Helsinki, all doctoral researchers belong to a doctoral programme. The successful candidate should apply to the Doctoral Programme in Wildlife Biology (LUOVA) < https://www.helsinki.fi/en/admissions-and-education/apply-doctoral-programmes/doctoral-school-and-doctoral-programmes/doctoral-programmes-environmental-food-and-biological-sciences/doctoral-programme-wildlife-biology > and obtain the study right within the probationary period of six months of their appointment. For more information about our doctoral programmes and the requirements for conducting a doctoral degree, please visit: https://www.helsinki.fi/en/research/doctoral-education . The application should include the following attachments as a single pdf-file (in English):

1) Statement on your background and motivations to join the research group (eg. How do you fit?, what would you bring?, what do you seek?) (max. 1 page)

2) Curriculum Vitae, including list of publications if any (preprints included, and quick description of your contributions to the works). 3) Names and contact details of two references

To apply, please submit the application through the University of Helsinki electronic recruitment system by clicking on the Apply button for the position. Applicants who have a helsinki.fi username and a valid employment/grant/visitor contract at the University of Helsinki are requested to submit their application via the Employee login button.

The closing date is August 15th, 2023 but review of applications will begin immediately and continue until the position is filled.

"Duplouy, Anne M R" <anne.duplouy@helsinki.fi>

ULyon KinRecognition

2 years postdoc on kin recognition genomics in insects

Kin recognition is crucial for animals, particularly when choosing their mates: avoiding sib-mating reduce consanguinity. Visual, chemical or acoustic cues inform on relatedness, and incest avoidance behaviors have been extensively documented 1. Yet, theory predicts than incestuous matings can be adaptive : in this way, a female can increase her brother's fitness, thereby maximizing her own inclusive fitness 2,3. Recent studies showed that incestuous mating avoidance is rare in animals, and highly variable across species, varying from avoidance to preference 4,5. The aim of this project is to contribute to better understand the genomic bases underlying these behaviours by comparing two insect species with contrasted kin avoidance mating behaviours. The first one is the parasitic wasp Venturia canescens, whose females avoid to mate with their brothers 6. We previously showed that females courted by their brothers presented characteristic transcriptomic responses 7. The second one is a species highly tolerant to inbreeding: the fly Drosophila melanogaster, whose females also recognize their brothers but favor incestuous matings 8,9. Those two model species are reared in the lab and sampled locally every year. The postdoc will address this question with behavioral ecology and functional genomic approaches: i) by analyzing insect behaviors in the presence of related or unrelated mates; ii) by comparing the corresponding transcriptomic profiles; iii) by conducing the functional analyses of candidate genes with the most relevant expression profiles. Identifying the genes involved in kin recognition, whether specific or common to both insect species, will contribute to a better understanding of the molecular and evolutionary mechanisms underlying the diversity of behaviors observed, ranging from preference, tolerance to avoidance of incestuous matings.

The successful candidate will join the LBBE at Lyon 1 university (France), an interdisciplinarity laboratory including a hundred researchers on evolutionary science (ecology, genomics, bioinformatic, health), with numerous PhD students and postdoc associates (https://-/lbbe.univ-lyon1.fr/fr). The laboratory benefits from all the facilities required for the project (behavior observation and recording system, molecular biology lab, and high-performance computing cluster), as well as skilled people supporting experimentation and bioinformatics. Part of the data are already available, and will be analyzed and published. He/She will start as soon as possible for a two-years contract. Research experience in the field of behavioral ecology or functional genomic is required, with an interest in both approaches. The host laboratory is located on La Doua campus in Lyon, a particularly dynamic metropolis in terms of research and industry. The city of Lyon is a Unesco world heritage site, close to the Alps. To apply, please send an email to aurore.gallot@univ-lyon1.fr with your CV and a summary of your motivation for the project, as well as the contact of referents. The hypothesis tested will be developed during the course of the project according to the results and in line with the postdoc interest. Do not hesitate to contact us to discuss the project. Gross salary: 2,320 euro (1,864 euro net including health insurance) employed by Lyon 1 university.

1. Pusey & Wolf. Inbreeding avoidance in animals. Trends Ecol. Evol. 11, 201-206 (1996). 2. Kokko & Ots. When not to avoid inbreeding. Evolution 60, 467-475 (2006). 3. Puurtinen. Mate choice for optimal (k)inbreeding. Evolution 65, 1501-1505 (2011). 4. de Boer, Vega-Trejo, Kotrschal & Fitzpatrick. Meta-analytic evidence that animals rarely avoid inbreeding. Nature Ecology & Evolution 5, 949-964 (2021). 5. Dorsey & Rosenthal. A taste for the familiar: explaining the inbreeding paradox. Trends Ecol Evol 38, 132-142 (2023). 6. Metzger, Bernstein, Hoffmeister & Desouhant. Does Kin Recognition and Sib-Mating Avoidance Limit the Risk of Genetic Incompatibility in a Parasitic Wasp? PLoS One 5, e13505 (2010). 7. Gallot, Sauzet & Desouhant. Kin recognition: Neurogenomic response to mate choice and sib mating avoidance in a parasitic wasp. PLOS ONE 15, e0241128 (2020). 8. Loyau, Cornuau, Clobert & Danchin. Incestuous sisters: mate preference for brothers over unrelated males in Drosophila melanogaster. PLoS One 7, e51293 (2012). 9. Robinson, Kennington, & Simmons. Preference for related mates in the fruit fly, Drosophila melanogaster. Animal Behaviour 84, 1169-1176 (2012).

Aurore Gallot, PhD

Laboratoire de Biométrie et Biologie Evolutive UMR 5558 CNRS Univ. Lyon 1 43 bd du 11 novembre 1918 - 69622 Villeurbanne

"aurore.gallot" <aurore.gallot@univ-lyon1.fr>

UMelbourne AllergenicWeedGenomics

We seek to support applicants for a JN Peters Fellowship (2yrs) to work on the genomic analysis of allergenic weeds. Details of the scheme can be found at: https://jobs.unimelb.edu.au/en/job/913301/-jn-peters-fellow-genetics-or-human-biology Application due date is Aug 14th.

Our lab (http://www.adaptive-evolution.org) works with ryegrass and ragweed as the two most allergenic weeds in Australia. We are looking to support an applicant willing to undertake a genomic analysis of pollen retrieved from pollen count stations (https://-www.melbournepollen.com.au/)

Contact: Alexandre Fournier-Level

< http://www.adaptive-evolution.org/ > School of BioSciences | Faculty of Science

Old microbiology - Building 184, rm 318

The University of Melbourne, Victoria 3010 Australia

T: +61 3 8344 7258 E: afournier@unimelb.edu.au

Alexandre Fournier-Level <alexandre.fournier@unimelb.edu.au>

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UOregon TreeSequences

We seek a postdoc for a collaborative, computational project to develop and apply cuttin edge computational methods in genomics; in particular working with the growing ecosystem of population genetics tools based on the "succinct tree sequence" data structure.. Funding is available for up to four years, and the position is based in Eugene, Oregon, USA, with opportunities for collaboration with groups at Cornell and Oxford.

Description of the position:

Background: the "succinct tree sequence" provides a way to store genetic sequence data using the genealogical trees at every position along the genomes of large groups of samples. Thanks to the tight connection to the generative process and the efficiency of trees as data structures, the succinct tree sequence provides a highly tractable way to look at, compute with, simulate, and store large genotyping datasets, and has led to huge speedups to many tasks in genetics since its introduction in 2016. Inference methods that take genetic sequence data and infer the underlying genealogical trees (technically, the Ancestral Recombination Graph) have the promise to open up new ways of looking at and interpreting genomic data that are more interpretable and descriptive of history and ongoing evolutionary process.

For this flexible position, we seek a researcher to join our collaborative team to help develop tools to either (a) better describe or compute with real datasets, (b) more efficiently or expressively simulate evolutionary processes, or (c) infer the genealogical trees. We are particularly interested in a simulation-based inference toolchain that might, for instance, use deep learning trained with simulations to infer tree sequences.

The position is based in the Kern-Ralph co-lab (https://-kr-colab.github.io/) and is in collaboration with Jerome Kelleher (Oxford; tskit group), and Philipp Messer and Ben Haller (Cornell; the SLiM simulator).

What we're looking for (you needn't have all of the following to apply): - interest in and enthusiasm for using tree sequences to answer questions in population biology - computational proficiency, ideally in python - experience working on collaborative software projects - research experience in genomics or another computational field equivalent to a PhD

Interested? Contact Peter Ralph <plr@uoreon.edu>

About us:

We care about making accessible, reliable, and well-documented tools to lower barriers to everyone to doing good, reliable, and cutting-edge science. To do this we work to establish a supportive, open, and collaborative environment, by lowering barriers to entry, freely sharing access and resources, and prioritizing justice- and equity-focused contributions. See https://-tskit.dev/community/ and https://kr-colab.github.io/-expectations for more.

Peter Ralph <petrel.harp@gmail.com>

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USaoPaulo TrophicSpecializationBlowflies

A Postdoctoral Scholarship is currently available within the scope of the Dimensions US-BIOTA-Sao Paulo project: understanding the evolutionary and genetic origins of diverse trophic specializations in blowflies (https://tinyurl.com/blowfly-evol).

The origin and evolutionary history of the diverse specialized feeding habits in Calliphoridae are still vastly understudied, and are limited by a lack of phylogenetic, genetic and ecological information. Within this project, an established team of evolutionary, ecological and genomic scientists are collaboratively investigating the causes and consequences of trophic specialization as a driver of species diversity across three integrated dimensions of blowfly research: 1) phylogenetic; 2) genetic/genomic; and 3) functional. The successful candidate will employ population genomics, and evolution and resequencing (E&R) approaches to investigate the evolution of feeding preference in a blowfly.

Applicants must hold a doctoral degree in population genetics, quantitative genetics, evolutionary biology, or a related field. Practical knowledge in sequence analysis, variant identification, and large-scale databases is required. The ability to maintain fly colonies and work collaboratively is essential. Further requirements and funding details are described at: https://fapesp.br/bolsas/pd . The position is available at the Department of Genetics and Evolutionary Biology at the University of Sao Paulo (https://torres.ib.usp.br/).

Interested candidates should submit a single PDF document via email, including a cover letter addressing the mentioned requirements and qualifications, and a CV to Professor Tatiana T. Torres (tttorres@ib.usp.br) by August 12, 2023. Preselected candidates based on document evaluation will be invited (via email) for an interview.

Tatiana Torres <tttorres@ib.usp.br>

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UTulsa EcoEvoDevo

Postdoctoral Fellow Position in Animal Ecology, Evolution, and Development

The research lab of Dr. Ron Bonett in The Department of Biological Science at The University of Tulsa invites applications for a Postdoctoral Fellow position in Ecology, Evolution, and Development (eco-evo-devo). This position is ideal for an integrative minded biologist who would like to advance their research program, while also obtaining training and experience in teaching, and learning diverse research techniques.

The Fellow will devote at least 60% effort to research and up to 40% to teaching. Research topics could include analyzing patterns or processes of biogeography, ecology, trait evolution, and development. Research could focus on any animal system although the primary expertise of our lab is with amphibians (https://ronbonett.weebly.com)

The candidate could start as early as Fall 2023. The successful applicant is expected to have a Ph.D. in Biological Science or a related field prior to starting. Desirable starting skills could include any of the following: ecological or evolutionary analyses, phylogenetics, genomics or transcriptomics. Interested applicants should submit: (1) A cover letter stating possible areas of research interest and how this Postdoctoral Fellowship will contribute to their career trajectory. (2) Curriculum Vitae. (3) Names and complete contact information for three references.

Questions should be directed to: ron-bonett@utulsa.edu

Applications should be submitted electronically to: https://universitytulsa.peopleadmin.com/postings/7873 Applicants will be considered until the position is filled.

Additional Postdoctoral opportunities in the Department of Biological Science are available in Integrative Biology: https://universitytulsa.peopleadmin.com/postings/7711 Neuroscience: https://universitytulsa.peopleadmin.com/postings/7719 The University of Tulsa is an Equal Opportunity Employer and is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

Ronald M. Bonett, Ph.D. Associate Dean of Research

Oxley College of Health and Natural Sciences Professor of Biological Science University of Tulsa 800 S. Tucker Drive Tulsa, OK 74104

Email: ron-bonett@utulsa.edu Office: (918) 631-3328 https://ronbonett.weebly.com ron-bonett@utulsa.edu

UVermont MolecularGeneticsAdaptation

Postdoctoral Position: Genotype to Phenotype in Sea Urchins

The Pespeni lab is excited to hire a postdoc with expertise in molecular genetics and interests in evolutionary biology, linking genotype to phenotype, and working with marine invertebrates. Project possibilities are open, but we would be particularly excited to recruit someone with interest in validating/testing the function of putatively adaptive mutations identified in the model sea urchin, Strongylocentrotus purpuratus.

Research in the Pespeni lab focuses on understanding the genetic bases of complex traits as well as the processes that maintain this functional genetic variation. We integrate studies of natural populations, where genetic and environmental variation is maximal, with studies in the lab, where genotypes and environmental conditions can be manipulated and controlled, respectively, to increase the power for causal inference. We work with sea urchins and copepods as models, each suited to address key gaps in understanding how evolution shapes the relationship between genotype, phenotype, and environment. We combine studies of genomic variation in the wild with experimental evolution and molecular validation in the lab. We are particularly interested in hiring a Postdoctoral Research Associate with molecular genetic expertise (e.g., reporter assays, CRISPR-Cas9) interested in linking genotype to phenotype to environmental conditions in non-traditional model organisms.

We, in the Pespeni lab, value the diversity of identities, perspectives, and lived experiences that each person brings to the group. We act with intention to nurture a collaborative and supportive environment where we can create, innovate, and thrive as individuals and as a collective. Individuals from diverse educational backgrounds (e.g., biology, mathematics, computer science, physics, environmental and health sciences), women, LGBTQIA+, first-generation college, veterans, and individuals with disabilities and from underrepresented racial, ethnic, gender, socio-economic and cultural groups are strongly encouraged to apply.

The position offers: 1) NIH Postdoctoral pay scale salary starting at $56,484 US plus benefits, 2) the opportunity to be a part of a stimulating, collaborative and collegial research group, department, and broader intellectual community at UVM, 3) the opportunity to mentor graduate and undergraduate students, guest lecture, and take advantage of other professional development trainings, and 4) the opportunity to work closely with the PI on mentoring, data analysis, and writing grants and papers.

Required Qualifications:

* Ph.D. by the time of start date. * Skills in one or more of the following fields: genetics, biology, evolutionary biology, genomics, population genetics, computational biology, bioinformatics, data science, or marine biology. * The successful candidate will also have excellent writing and personal communication skills, a demonstrated desire and ability to publish in peer reviewed journals, ability to work in a team or individually, and a commitment to open, reproducible science.

Preferred Qualifications:

* Experience manipulating gene expression or function using molecular genetic tools in any organism. * Experience working with non-traditional model organisms. * Genomics, bioinformatics skills.

Initial appointment will be for one year, with the possibility of extension for one or two additional years, contingent on performance and funding. Start date is preferably September 2023, but can be flexible. Remote work options are normally considered, but, due to the nature of the position, being based in Vermont is preferred.

To apply, e-mail a single PDF including a cover letter, a CV, and the names and contact information of three references to Dr. Pespeni (mpespeni@uvm.edu) with the subject: "GtoP Postdoctoral Application". The cover letter should highlight your interest in the position, your relevant expertise with respect to required and preferred qualifications, project ideas as this position has flexibility, and your short- and long-term career goals. Review of applications will begin August 1, 2023. Informal inquiries prior to applying are welcome.

Link to advertisement and lab website: https://blog.uvm.edu/mpespeni/ Melissa Pespeni, Ph.D. (she/her) Associate Professor, Department of Biology Director, QuEST PhD Program University of Vermont

Pespeni Lab Website < http://blog.uvm.edu/-mpespeni/home/ > NSF Research Traineeship: Quantitative and Evolutionary STEM Training (QuEST < https://www.uvm.edu/quest >)

Melissa H Pespeni <Melissa.Pespeni@uvm.edu>

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Vienna Two PolygenicAdaptation

Postdoc positions are available within the *Special Research Program (SFB)* < https://-www.vetmeduni.ac.at/sfb-polygenic-adaptation >* "Polygenic adaptation: from single selected loci to the infinitesimal model" in Vienna, Austria*. Vienna is on top of the world's most liveable cities and home to one of the largest communities of evolutionary research in Europe (www.evolVienna.at).

The SFB program is funded by the Austrian Science Fund (FWF) and brings together eight research groups at four institutions in and around Vienna with the common goal of elucidating the evolutionary genetics of adaptation of complex phenotypes: *Neda Barghi* < https://www.vetmeduni.ac.at/en/population-genetics/research/barghi-lab/group-leader > *, **Robert Kofler* < https://www.vetmeduni.ac.at/en/-population-genetics/research/kofler-lab >*, **Christian Schlötterer* < https://www.vetmeduni.ac.at/en/-population-genetics/research/schloetterer-lab > * (Vetmeduni); **Joachim Hermisson* < https://-www.mabs.at/team/ >*, **Himani Sachdeva* < https://www.mabs.at/team/ >* (Univ. of Vienna); **Magnus Nordborg* < https://www.oeaw.ac.at/-gmi/research/research-groups/magnus-nordborg/ >*, **Kelly Swarts* < https://www.oeaw.ac.at/gmi/-research/research-groups/kelly-swarts >* (Gregor Mendel Institute); **Nick Barton* < https://-bartongroup.pages.ist.ac.at/people/group-leader/ >* (ISTA)*. For young scientists, this cluster offers a unique environment for interaction and personal growth.

The SFB aims to develop a framework for understanding polygenic adaptation and to establish new standards for the analysis of adaptive polygenic traits in GWAS and experimental evolution studies. We will combine model-based conceptual work and data-driven approaches from GWAS and experimental evolution to achieve this goal. The models and methods that will be developed integrate population genetic and quantitative genetic approaches to detect, analyze, and interpret genomic patterns of the "architecture of polygenic adaptation".

*SFB - a collaborative environment for research and learning: *The theoretical and empirical projects of the SFB are highly synergistic and the collaborative nature of the SFB will provide an inspiring academic environment and promote curiosity-driven research. The interaction between projects of the SFB is strongly facilitated by a long-standing track record of fruitful interactions among the PIs. The PhD students and postdocs in the SFB will benefit enormously from these tight interactions.

To ensure a good integration of experiment and theory, researchers have the opportunity to spend some time in a group from the other "camp". These regular exchanges will improve the mutual understanding of concepts and problems, ensure that the theoretical work is guided by experiments (and vice versa) and will represent a true added value of the SFB. In addition to the formal supervisor, both PhD students and postdocs will have at least one co-advisor with complementary expertise.

*Courses: *The recruited early-stage researchers in the SFB will have the opportunity to acquire experience beyond their own projects and working groups.

The SFB PIs participate in joint teaching activities and representatives of all institutions are contributing to the Vienna Graduate School of Population Genetics (www.popgen-vienna.at). The PhD students will be integrated in the Vienna Graduate School of Population Genetics, which offers a 5-week introductory course that covers subjects as diverse as statistics, population genetics, Drosophila genetics, programming, NGS data analysis (both DNA- and RNA-Seq) and quantitative genetics.

SFB postdocs will have the opportunity to participate in the teaching in introductory course in their areas of expertise. But at the same time can attend specific modules of the introductory course together with the PhD students. This joint event will have a tremendous impact on team-building and can enable scientists from different host institutions to establish strong ties which can result in research collaborations.

The IST Graduate School offers more advanced courses in evolutionary

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mcmaster.ca/~brian/evoldir.html

WashingtonU StLouis MicrobialEvolution

Postdoctoral positions in ecology, evolution, and genetics of Dictyostelium discoideum and its bacteria

The Queller-Strassmann group at Washington University in St. Louis has postdoctoral positions for someone interested in exploring this fascinating microbial system. Current funding is for studying D. discoideum as a super-generalist predator. For example, how do they manage to defeat so many bacterial defenses? What are the costs of feeding on multiple bacteria, or in switching among them? What are their abilities to detect and choose different bacteria? Do predation-related genes evolve rapidly? But we are also open to ideas from you within the general area of social evolution, symbiosis, and predator-prey interactions in microbes. We have about 200 wild-collected bacteria from D. discoideum fruiting bodies ripe for study. Approaches can include genetics, genomics, microbiome, field, laboratory, or experimental evolution.

David Queller and Joan Strassmann lead a friendly and interactive team of highly motivated, creative, and smart investigators. Check out our website, (http://-strassmannandquellerlab.wordpress.com/) for more information on our lab, or Strassmann's blog (http://-sociobiology.wordpress.com). We want what is best for you and want to help you towards your goals. Funding can last two or more years, though we encourage and help you apply for your own funding. We pay for you to attend meetings, have plenty of funds for supplies, sequencing, and needed equipment. We are part of the Living Earth Collaborative in Biology at Wash U and have a great seminar series and other supportive activities. We believe in outreach and have a summer program at the Ferguson Farmers' Market. Our group is a place you can flourish. If you are interested in joining our group, please send an email to Joan Strassmann (Strassmann@wustl.edu) with a single file including CV, statement of research interests, and the names, phone numbers, and email addresses and phone numbers of a couple of references. Women and underrepresented minorities are particularly encouraged to apply. We will begin reviewing applications as we receive them and will continue to accept them until the positions are filled. Start date is flexible.

Joan E. Strassmann Charles Rebstock Professor of Biology

Washington University in St Louis strassmann@wustl.edu phone: 832-978-5961 look for my book, Slow Birding, just out! https://-www.penguinrandomhouse.com/books/667563/-slow-birding-by-joan-e-strassmann/ "Strassmann, Joan" <strassmann@wustl.edu>

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WashingtonU StLouis PhylogeneticModeling

The Landis Lab is hiring a postdoc to research statistical phylogenetic models and methods. Together, we'll define the exact project(s) based on shared research interests and goals. Current topics my group studies include phylogenetic inference, divergence time estimation, historical biogeography, evolution of ecological interactions, integration of paleodata into phylogenetic models, phylodynamics of infectious disease, and Bayesian and deep learning methods. Great opportunity for those who enjoy exploring phylogenetic model space.

Read more about our research group here: http:/-/landislab.org/research/ http://landislab.org/people/ http://landislab.org/people/lab_overview.html Our lab is part of the Department of Biology at Washington University in St. Louis and the larger St. Louis biodiversity research community (WUSTL, UMSL, SLU, Danforth Plant Science Center, MOBOT, St. Louis Zoo). St. Louis itself is a large metropolitan area with good food, music, public spaces, and affordable housing.

Qualifications: -âexperience in evolutionary biology, computer science, and/or, statistics, etc. -âexperience, with preferences for C++, Python, R, or Julia -âhave defended PhD before start date

Employment: -âstarts at $60k/yr -âinclude health, vision, and dental insurance -âof living for a single adult in St. Louis City is ~$35k/yr (https://livingwage.mit.edu/-counties/29510) -âis for 2+ years

Dates: -âreviews begin in August of 2023 -âstart date, with a preference for Fall 2023 or Spring 2024

- Position will remain open until filled

To apply, please email the following materials to michael.landis@wustl.edu: -âletter explaining your in-

terests and fit for the lab -âcurrent CV

Please feel welcome to contact me with any questions or to simply notify me that you plan to apply.

Michael Landis Assistant Professor Department of Biology Washington University in St. Louis michael.landis@wustl.edu

https://landislab.org "Landis, Michael" <michael.landis@wustl.edu>

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WorkshopsCourses

Argentina ConservationGenetics Nov25-Dec5

ACCEPTING APPLICATIONS for the XVI Workshop on Conservation Genetics: Conservation and genetics in action of the Red de Genética para la Conservación (ReGeneC):November 25th to December 05th, 2023.

Application deadline: August 15th, 2023. See "Preinscribirme" for application process details.

This 11-day intensive graduate course, directed primarily at Latin American postgraduate students and young professionals, will be offered in Spanish and Portuguese at the Centro Nacional Patagónico - CONICET, CENPAT, Puerto Madryn - Argentina. Instructors confirmed to date are faculty representing five Latin American countries (Argentina, Brazil, Chile, Colombia, and Venezuela), and also from USA and Canada, with a wide array of scientific perspectives within Conservation Genetics.

The course combines discussion sessions, hands-on data analysis, and in-depth review and presentation of ongoing research by participating students, with formal lectures in project design, marker choice, phylogenetics, phylogeography, and population genetics. Throughout the course, we emphasize practical applications to the real-world conservation process.

Organized byReGeneCin collaboration with local Argentine institutions: Centro para el Estudio de Sistemas Marinos (CESIMAR - CONICET), Universidad Nacional de la Patagonia San Juan Bosco (UNPSJB), and Instituto de Diversidad y Evolución Austral (IDEAus - CONICET).

The XVIReGeneCcourse is supported (until now) by the United Nations University - Programme for Biotechnology in Latin America and the Caribbean (BioLAC), Instituto Milenio BASE (IBASE), Instituto Luísa Pinho Sartori (ILPS), The Company of Biologists.

For more information, please visit our websitehttps://regenec.org/taller/nov2023/or send an email toasistenciaregenec@gmail.comorregenec@gmail.com

ABIERTO PERÃODO DE POSTULACIONES para el Décimo sexto curso intensivo de la Red de Genética de la Conservación (ReGeneC):"Conservación y genética en acción"25 de noviembre - 05 de diciembre de 2023.

Fecha límite para postular:15 de agosto de 2023. Ver la sección"Preinscribirme"para detalles del proceso de

postulación.

Este curso intensivo de 11 días, dirigido principalmente a estudiantes de posgrado y jóvenes profesionales latinoamericanos, se ofrecerá en Castellano y Portugués en elCentro Nacional Patagónico - CONICET, CENPAT, Puerto Madryn - Argentina.En el curso participarán como Instructores profesores investigadores de cinco países latinoamericanos (Argentina, Brasil, Chile, Colombia y Venezuela), así como de USA y Canadá, con una amplia gama de enfoques dentro la genética para la conservación.

El curso combinará sesiones de discusión, clases prácticas de análisis de datos y revisión profunda y presentaciones de investigación activa por los estudiantes, con ponencias formales en diseño de proyectos, selección de marcadores, filogenia, filogeografía y genética de poblaciones. A través del curso, se enfatizarán aplicaciones prácticas al proceso de conservación en el mundo real.

Organizado porReGeneCen colaboración con tres insttuciones locales argentinas: el Centro para el Estudio de Sistemas Marinos (CESIMAR - CONICET), la Universidad Nacional de la Patagonia San Juan Bosco (UNPSJB) y el Instituto de Diversidad y Evolución Austral (IDEAus - CONICET).

La edición XVI de cursosReGeneCrecibe apoyo financiero (hasta la fecha) del Programa para Biotecnología in Latinoamérica y el Caribe de la Universidad de las Naciones Unidas(BioLAC), el Instituto Milenio BASE (IBASE), el Instituto Luísa Pinho Sartori (ILPS), y The Company of Biologists.

Para más información, visite nuestro sitio webhttps://regenec.org/taller/nov2023/o contáctenos por correo electrónico en las siguientes direcciones:asistenciaregenec@gmail.com yregenec@gmail.com

Dr. Elie POULIN Laboratorio de Ecología Molecular (LEM) Instituto Milenio Ecosistemas Antárticos y Subantárticos (BASE) Instituto de Ecología y Biodiversidad (IEB) Departamento de Ciencias Ecológicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425 CP 7800003, Ãuñoa, Santiago, Chile https://www.institutobase.cl/ https://-www.researchgate.net/profile/Elie_Poulin Phone:(56)-2-29787298 E-mail:epoulin@uchile.cl

Elie Albert Poulin <epoulin@uchile.cl>

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Berlin FloralMorphologyEvolution Aug7-18

Dear colleagues,

There are still some places available on the floral morphology workshop that we organise this summer in Berlin from 7 till 18 August. This course will appeal to anyone wishing to understand more about floral structure and their evolution.

Please distribute widely among anyone who would benefit from this course. Thank you,

Dr. Louis Ronse De Craene Research Associate Royal Botanic Garden Edinburgh

Prof. Julien Bachelier Freie Universitaet Berlin

Berlin Summer Course in Plant Morphology and Systematics 7-18 August 2023

This two-week short course (7th-18th August, 2023) will be based at the Biological Institute of the Freie Universität Berlin and the Berlin Botanical Garden, which offer extensive facilities, including functional microscopy laboratories and a huge plant collection of more than 20,000 species. The course is setup as lecture-based, laboratory taught, and interactive visits of the living collections.

FORMAT: 2-week workshop, lectures and hands-on practical sessions.

INTENDED AUDIENCE: PhD students, post-doctoral and advanced researchers, professionals (but no formal restriction). A basic knowledge of botany is preferred but not essential. The course will run with a minimum of 10 and a maximum of 20 participants.

REGISTRATION FEE: 800 euro (Registration includes coffee breaks, daily lunches with snacks, and an excursion, but does not include travel and lodging).

HOW TO APPLY AND SECURE A PLACE: Please contact Louis Ronse De Craene (l.ronsedecraene@gmail.com) to request an application form.

To secure a place on the course you will be asked to pay a deposit of euro 100.

COURSE INSTRUCTORS AND CONTACT: Dr. Louis Ronse De Craene, Research Associate Royal Botanic Garden Edinburgh (l.ronsedecraene@gmail.com)

Prof. Julien Bachelier, Freie Universität Berlin (julien.bachelier@fu-berlin.de)

PROGRAMME:

Course Description and outline: This short course will introduce students to the structure and development of flowering plants, with a focus on floral diversity and the significance of flowers for systematics and evolution as a whole.Major plant families will be identified within the framework of the main lineages of seed plants to understand their evolution and diversification. Additionally, students will learn to analyse, describe, and study the structure of inflorescences, flowers, and fruits, and based on their observations, to identify the main evolutionary patterns underlying their tremendous morphological diversity, as well as their potential pollination and dispersal mechanisms.

Course objectives and learning outcomes: Through this course students will acquire the following skills: - a guide to identifying plants using morphological characters in the context of the molecular classification system. - a better understanding of the origin and evolution of floral structures, including their importance for classification, and of the main developmental patterns and evolutionary trends which underlie the tremendous diversity of reproductive structures. - an ability to observe and recognise key characters through the study of live floral material and the building up of floral diagrams.

Course outline: Daily activities will be in the following format: 9-12 Lecture, seminar and discussion of paper. 12-13 Lunch break 13-18 Plant collecting and observation.

Monday 7 August: Student presentations - introduction to morphology of vegetative structures and flowers, inflorescence and flower structure (floral diagrams and formulas); overview of major groups of flowering plants. Tuesday 8 August: Major characteristics of Flowers and special attributes (phyllotaxis, aestivation, merism, symmetry, floral tubes and hypanthia). Wednesday 9 August: Floral evolution from the ANITA grade to Mesangiosperms Thursday 10 August: Monocot evolution: variations on a theme Friday 11 August: Basal eudicots and rise of the core eudicots Saturday 12 August: excursion to Sans Souci (Potsdam Sunday 13 August: day off Monday 14 August: Rosid diversification I Tuesday 15 August: Rosid diversification II Wednesday 16 August: Rosid-Asterid transition Thursday 17 August: Asterid diversification I Friday 18 August: Asterid diversification II - Conclusions and wrap-up followed by BBQ

Recommended Textbooks and Reading: Please note that this list is not exhaustive, and that these books will be available in class:

Endress, P.K. 1996. Diversity and evolutionary biology of tropical flowers. Cambridge University Press, Cambridge.Leins, P. & Erbar, C. 2010. Flower and fruit: morphology, ontogeny, phylogeny, function and ecology. Schweizerbart Science Publishers, Stuttgart.Ronse DeCraene LP. 2022. Floral Diagrams: An Aid to Understanding Flower Morphology and Evolution. 2nd Edition. Cambridge University Press.Simpson MG. 2019. Plant systematics. 3th Edition. Elsevier.Soltis DE, PS Soltis, PK Endress, MW Chase, S Manchester, W Judd, L Majure, E Mavrodiev. 2018. Phylogeny

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cE3c Portugal EvolutionaryBiology

cE3c Advanced Courses 2023/2024

The detailed program of the Advanced Courses organized by cE3c - Centre for Ecology, Evolution and Environmental Changes

http://ce3c.ciencias.ulisboa.pt/ - for the academic year 2023/2024 is already available.

These courses are aimed for students enrolled in Doctoral Programmes in Biology or related area. They can also be attended by post-graduate students of other Doctoral Programmes or Masters in Biology, or others with basic biology formation (such as BSc in Biology or related areas).

The courses have in general an intensive format, with one week of duration. Some have a shorter format (see details in each course's programme).

We present below the list of courses of more interest for evolutionary biologists or development of soft skills. More details of these and other courses (including programmes, fees and procedures for applications) can be found at:

https://ce3c.ciencias.ulisboa.pt/training/ Selection ofAdvanced Courses cE3c 2023/2024

November 6th - 10th 2023 -Scientific Writing and Communication(Gabor Lovei).Deadline for applications October 2nd 2023.

January 8th - 12th 2024 -Bioinformatics analysis of biological sequences - from sequence to structure(Teresa Nogueira, Rita Ponce &Eva Pinho).Deadline for applications December 11th 2023. (ONLINE)

January 15th - 19th 2024 -Science and the Media: bringing together scientists, journalists and society(Marta Daniela Santos). Deadline for applications December 15th 2023.

January 22nd - 26th2024 -Production of Science Communication Activities(Cristina LuÃÂ's & PatrÃÂ'cia Garcia Pereira).Deadline for applications December 27th 2023.

March 11th- 15th 2024 -Experimental Design and Reproducibility in Science(InÃÂs Fragata, Leonor Rodrigues & Diogo Godinho). Deadline for applications February 9th 2024. (provisional calendar)

April 1st - 5th 2024 -Entomology: Insect diversity and decline (Ana Sofia Reboleira et al.). Deadline for applications:March 1st 2024.

(NEW) April 8th- 12th 2024-Strategies for citizen engagement in science communication(Cristina LuÃÂ's & PatrÃÂ'cia Tiago).Deadline for applications March 1st 2024. (ONLINE)

May 13th- 17th 2024 -Hands on Functional Diversity: from Ecological Indicators to Ecosystem Services (Alice Nunes et al.). Deadline for applications April 13th 2024.

June 17th- 21st 2024 -Monitoring pollinators: butterflies, hoverflies and bees (PatrÃÂ'cia Garcia Pereira et al.). Deadline for applications:May 24th 2024.

(NEW) June 26th- 28th 2024-Introduction to R programming and biological data analysis(InÃÂs Fragata & Alexandre Blanckaert). Deadline for applications May 24th 2024.

July 1st - 5th 2024-Advanced R for Ecology and Evolutionary Biology(InÃÂs Fragata, Alexandre Blanckaert & Vitor Sousa). Deadline for applications May 24th 2024.

July 15th- 19th 2024 -Measuring Biodiversity:How to get data, assess its quality and measure different aspects of diversity(Joaquin Hortal). Deadline for applications:May 24th 2024.

Margarida Matos Executive Committee of Centre for Ecology, Evolution and Environmental Changes Faculdade de CiÃÂncias da Universidade de Lisboa

Margarida Matos <mmmatos@ciencias.ulisboa.pt>

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Online AnalysisPopulationGenomics Oct2-11

Dear colleagues,

Registration is open for the course “Manipulation of NGS Data for Genomic and Population Genetics Analyses” - 4th edition.

Schedule: Online live sessions 2nd, 4th, 6th, 9th, and 11th of October 2023; from 13:00 to 17:00 (Madrid time zone).

Instructors: Dr. François Sabot [1] (Institute of Research for Development, France) and Dr. Christine Tranchant-Dubreuil [2] (Institute of Research for Development, France).

More information and registration: https://-www.transmittingscience.com/courses/genetics-and-genomics/manipulation-ngs-data-genomic-population-genetics-analyses/ Course program:

* Introduction to NGS sequencing platforms. * Introduction to basic command lines. * Basic raw data manipulations (counting sequences, listing files). * Raw data QC & Cleaning. * Introduction to TOGGLe, an NGS pipeline framework. * Mapping: principle, tools, execution. * Mapping: cleaning, data control, realigning, duplicates marking. * SNP calling: raw calling, cleaning calling, filtering. * VCF manipulations: filtering on MAF, heterozygosityÂ * Impact of SNPs on genes. * Population genomics using sNMF. * Context-based analyses. * Piping large-scale analyses for multiple samples using TOGGLe. * Testing new tools and different conditions to answer different biological questions. * Questions.

With 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

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Links:

[1] https://www.transmittingscience.com/-instructors/francois-sabot/ [2] https://-www.transmittingscience.com/instructors/christine-tranchant-dubreuil/ Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Online DNAMethylation Oct30-Nov3

Dear all,

registration is now open for the 3rd edition of the course "DNA METHYLATION IN ECOLOGY AND EVOLUTION"

Dates: online, 30 October -3 November

This comprehensive course will cover various approaches to obtain and analyze DNA methylation data, including bisulfite sequencing (BS-seq) using Illumina, PacBio, and Oxford Nanopore technologies. The data will be interpreted in terms of their biological importance in the field of ecology and evolution. While the examples demonstrated will primarily focus on non-model organisms with draft reference genomes available, we will also discuss various applications of this data type for diverse research purposes.

Course website: (https://www.physalia-courses.org/-courses-workshops/dnamethylation/)

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please feel free to contact us at info@physalia-courses.org.

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

Online GenomeAssembly Oct23-27

Dear all, registrations are now open for the 4th edition of the online course on Eukaryotic Genome Assembly using PacBio and Hi-C technologies. The course will be held from 23rd to 27th October 2023.

Course website: (https://www.physalia-courses.org/-courses-workshops/pacbio/)

This course aims to equip researchers with the knowledge and practical skills required to perform de novo genome assembly, leveraging the power of Pacific Biosciences Long Reads and Hi-C data.

During this course, participants will be introduced to a range of methods encompassing the entire assembly workflow. Starting from raw data manipulation and quality analysis, attendees will learn how to run various assembly algorithms, execute Hi-C scaffolding algorithms, and assess assembly quality. The program is structured over five days, with a comprehensive blend of theoretical sessions and practical exercises using small eukaryotic datasets.

Who should attend? This course is designed for researchers eager to grasp the theory and practice of de novo eukaryotic genome assembly using Pacific Bio-

sciences Long Reads and Hi-C data. Whether you are a beginner or an advanced user, this course offers valuable insights and techniques to enhance your genomic research endeavors.

By participating in this course, you can expect to achieve the following learning outcomes:

1. Gain a comprehensive understanding of PacBio HiFi (mostly), PacBio CLR, and Hi-C data. 2. Familiarize yourself with the fundamental concepts of de novo genome assembly. 3. Acquire practical experience in utilizing cutting-edge tools for de novo assembly and assembly quality assessment.

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please feel free to contact us at info@physalia-courses.org.

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online IntroDeepLearning Oct2-6

Dear all, We are delighted to announce our upcoming training course: "Introduction to Deep Learning for Biologists." This comprehensive programme will equip participants with the essential knowledge and skills to leverage deep learning algorithms for regression and classification tasks in biological research. The course will be held online from 2nd to 6th October 2023.

Course website: (https://www.physalia-courses.org/-courses-workshops/course67/) Course Overview: In this course, we will provide a solid theoretical foundation and practical guidance for developing deep learning models specifically tailored to biological data. With a particular emphasis on Convolutional Neural Network (CNN) architectures, we will address real-world challenges in data classification, regression, and image segmentation. Additionally, we will cover statistical learning concepts, including performance evaluation, cross-validation, overfitting prevention, and model generalisation.

Format: The course will be delivered through a combination of interactive lectures, class discussions, and hands-on practical exercises. Participants will have the opportunity to collaborate with both instructors and fellow attendees, applying their newly acquired skills to solve real-world problems. The course will primarily utilise Python, Jupyter Notebooks, and the Linux command line.

Target Audience and Prerequisites: This course is designed for advanced students, researchers, and professionals with an interest in deep learning and its applications in biology. Whether you are a beginner or an experienced user, this course caters to diverse skill levels. A background in biology and familiarity with research problems involving prediction, inference, and pattern discovery is recommended. Basic knowledge of Python programming and the Linux environment will be advantageous but not mandatory.

Learning Outcomes: By the end of this course, participants will: Gain a solid understanding of the theoretical foundations and commonly used architectures in deep learning.

Differentiate between classification, regression, and segmentation tasks and effectively frame real-world biological problems.

Acquire the necessary skills to build and evaluate deep learning models for prediction problems in biology.

Learn how to work with real-world data, including data preparation and augmentation techniques.

Registration: Limited seats are available for this exclusive course. To secure your spot, please visit (https:/-/www.physalia-courses.org/courses-workshops) Should you have any questions, please feel free to contact us at (info@physalia-courses.org).

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online IntroToRNAseqBioinformaticPipelines Oct24-31

Dear colleagues,

Registration is open for the online edition of the course Introduction to RNA-seq bioinformatic pipelines.

Dates and schedule: Online live sessions on 24, 26, 27, 30, and 31 October; 13:00 to 17:00 (Madrid time zone), plus 6 hours of participants working on their own.

Instructors: Marcela Dotto (Instituto de Ciencias Agropecuarias del Litoral, Argentina) and Hernan G. Rosli (Instituto de Fisiologï¿½a Vegetal INFIVE, Argentina).

More information and registrations: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-rna-seq-bioinformatic-pipelines/ Course Overview:

This is an introductory course aiming at guiding students through the execution of the most common pipelines used to analyze different types of data generated through RNA sequencing with NGS technologies.

The course focuses on the use of Linux-based software and tools and is oriented toward graduates or postgraduates with a degree in Biomedical or Life Sciences. No previous experience working with Linux-based operating systems is required.

Programme:

* Brief introduction to Linux * Quality control and preprocessing of fastq files * SAM format and samtools * RNA-seq * Small RNA sequencing * LncRNA discovery

Best regards,

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.

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Online RADseqPopGenomicsAnalysis Oct2-6

The Practice of RADseq: Population Genomics Analysis with Stacks (RADS02)

https://www.prstatistics.com/course/the-practice-of-radseq-population-genomics-analysis-with-stacks-rads02/ 2nd - 6th October 2023,09:00-16:00CDT (Central Daylight Time),however all sessions will be recorded and made available daily allowing attendees from different time zones to follow. Cost Early bird - book before 18th September350.00 Normal- book after

18th September450.00

Delivered by Dr Julian Catchen

Please feel free to share!

About This Course

This course is aimed at introducing researchers to the theory and practice of using reduced representation libraries - such as RAD sequencing - to preform population genomic analysis in non-model organisms. The course will center on running the software pipeline Stacks, focusing on how the characteristics of the underlying molecular libraries result in weak or robust analytical results. Sessions will be live online, consisting of a blend of lectures, interactive demonstrations, and lab practicals, where participants will have the opportunity to ask questions throughout. Computation will be done on the Amazon AWS Cloud.

By the end of the course, participants should be able to:

Navigate the UNIX file system, execute commands, and interact with bioinformatic data files; Understand how to perform ade novoanalysis - without a reference genome - including parameter optimization; Understand how PCR duplicates and other molecular library characteristics affect analysis; Complete a reference genome-based analysis; Take the outputs from Stacks to complete a Structure analysis (de novo), a genome scan based on FST(reference-based), and a private allele analysis. Please email oliverhooker@prstatistics.com

Upcoming courses

ONLINE COURSE - Adapting to the recent changes in R spatial packages (sf, terra, PROJ library) (PROJ04)

https://www.prstatistics.com/course/adapting-to-the-recent-changes-in-r-spatial-packages-sf-terra-proj-library-proj04/ ONLINE COURSE - Reproducible and collaborative data analysis with R (RACR03)

https://www.prstatistics.com/course/reproducible-and-collaborative-data-analysis-with-r-racr03/ ONLINE COURSE - Machine Learning with R (Intermediate - Advanced) (MLIA01)

https://www.prstatistics.com/course/machine-learning-with-r-intermediate-advanced-mlia01/ ONLINE COURSE - Species Distribution Modelling With Bayesian Statistics Using R (SDMB05)

https://www.prstatistics.com/course/online-course-species-distribution-modelling-with-bayesian-statistics-using-r-sdmb05/ ONLINE COURSE - Advanced Ecological Niche Modelling (ENM/SDM) Using R (ANMR02)

https://www.prstatistics.com/course/advanced-ecological-niche-modelling-enm-sdm-using-r-anmr02/ ONLINE COURSE - Multivariate Analysis Of Ecological Communities Using R With The VEGAN package (VGNR05)

https://www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-using-r-with-the-vegan-package-vgnr05/ ONLINE COURSE - Path analysis, structural equations and causal inference for biologists (PSCB01)

https://www.prstatistics.com/course/path-analysis-structural-equations-and-causal-inference-for-biologists-pscb01/ ONLINE COURSE - Introduction to generalised linear models using R and Rstudio (IGLM06)

https://www.prstatistics.com/course/introduction-to-generalised-linear-models-using-r-and-rstudio-iglm06/ ONLINE COURSE -Quantitative analysis of infrared spectroscopy data for soil and plant sciences (SPEC02)

https://www.prstatistics.com/course/quantitative-analysis-of-infrared-spectroscopy-data-for-soil-and-plant-sciences-spec02/ ONLINE COURSE - Introduction To Mixed Models Using R And Rstudio (IMMR07)

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Online RADseqWithStacks Oct30-Nov3

Dear all,

We are excited to announce our upcoming course on "RAD-SEQ DATA ANALYSIS" that will take place online from 30th October to 3rd November 2023.

Course website: (https://www.physalia-courses.org/-courses-workshops/course16/)

This course is designed to introduce you to various approaches for obtaining reduced representation genome sequencing data, with a special emphasis on data analysis using Stacks. We will guide you through all the essential steps to derive informative genome variants from short-read data, facilitating population genetics, phylogenetic, and association studies.

The examples showcased during the course will primarily focus on non-model organisms, both with and without draft reference genomes.

To make the most of this course, attendees should possess a background in biology. While we will dedicate one session to basic and advanced Unix concepts, familiarity with genomic data from NGS high-throughput sequencers is recommended.

ull list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please feel free to contact us at info@physalia-courses.org.

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

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Online RNAseqAnalysis Oct30-Nov17

Dear all,

registrations are now open for the 4th edition of the course “RNA sequencing data with R/Bioconductor”.

Dates: online, 30 Oct - 17 Nov

Website: (https://www.physalia-courses.org/courses-workshops/course19/)

This course is designed to equip biologists and bioinformaticians with practical statistical analysis skills necessary for rigorous analysis of high-throughput genomic data. While basic familiarity with genomics and R programming is assumed, prior statistical training is not required. Topics to be covered include hypothesis testing, data visualization, genomic region analysis, differential expression analysis, and gene set analysis.

Instructors: Dr. Ludwig Geistlinger (Center for Computational Biomedicine, Harvard Medical School, USA) and Dr. Michael Love (UNC-Chapel Hill, USA).

Course Schedule (Berlin time): Session 1 - Introduction: Mon, Oct 30, 3-6 PM Session 2 - Hypothesis testing: Wed, Nov 01, 3-6 PM Session 3 - Tidyverse: Fri, Nov 3, 3-6 PM Session 4 - Introduction to Bioconductor: Mon, Nov 6, 3-6 PM Session 5 - RNA-seq data analysis: Wed, Nov 8, 3-6 PM Session 6 - Genomic Data Visualization: Fri, Nov 10, 3-6 PM Session 7 - Differential expression analysis: Mon, Nov 13, 3-6 PM Session 8 - Gene set analysis: Wed, Nov 15, 3-6 PM Session 9 - Bioconductor tidy workflows: Fri, Nov 17, 3-6 PM

Should you have any questions, please do not hesitate to contact us at (mailto:info@physalia-courses.org)

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops/)

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org mobile: +49 17645230846 Follow us on (https://mas.to/@PhysaliaCourses)

“info@physalia-courses.org” <info@physalia-courses.org>

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Online SeascapeGenomicsInR Nov6-10

Dear all,

there are still a few seats available on “Seascape Genomics in R,” which will take place from 6th to 10th November 2023. This multidisciplinary workshop aims to delve into the fascinating world of seascape genomics, exploring how the marine environment influences the genomic diversity and connectivity of marine organisms.

This course will equip participants with the necessary skills to extract and analyze environmental data from publicly available databases. They will learn to characterize seascape structure and conditions, including sea water temperature oscillations and movements using remote sensing data. The focus will then shift to genomic analyses, evaluating genetic structures and calculating connectivity between populations. Participants will also explore methods to identify genetic signatures related to adaptation against specific environmental constraints. Additionally, we will emphasize the interpretation and validation of results, particularly in the context of applied conservation and management efforts. The course will also cover essential aspects and best practices for

designing a seascape genomics experiment, including sampling design and relevant scientific questions.

For more information and to register for the course, please visit our website (https://www.physalia-courses.org/courses-workshops/course70/)

Full list of our courses and Workshops: (https://-www.physalia-courses.org/courses-workshops)

Should you have any questions, please feel free to contact us at info@physalia-courses.org.

Best regards,

Carlo

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Online TransposableElementDetection Oct12-20

Dear colleagues,

Registration is open for the course Introduction to _Transposable element detection using sequencing data_ - 2nd edition. This course will be held live online (synchronous). Max 20 participants.

Dates: October 12th-20th, 2023. Online live sessions on 12, 13, 18, 19, and 20 October; 13:00 to 17:00 (Madrid time zone).

Instructor: Dr. Anna-Sophie Fiston-Lavier (Institut des Sciences de l’Evolution de Montpellier, France) & Dr. Emmanuelle Lerat (Universitï¿½ Lyon 1, France)

More information and registration: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/ COURSE OVERVIEW

Transposable elements (TEs) can be major components of eukaryotic genomes. Such repeated sequences, which can make up very large proportions like about 50% of mammalian genomes to more than 80% in the genomes of some plants, can promote various types of mutations, from gene interruption and expression alteration to large-scale chromosomal rearrangements. They can also promote the formation of new genes. Despite their deleterious effects, TEs are currently considered as major actors in genome evolution due the genetic and epigenetic diversity they can generate.

Even if they have a fundamental biological role, detection and analysis of TE sequences are still technologically challenging. The length and quality of sequenced reads make their detection and annotation difficult (40% detection error). Moreover, the presence of TEs in a genome can also lead to important assembly errors due to rearrangement and the merge of repeats, and to difficulties in the identification of splicing events and in the estimation of gene expression in transcriptomic analyses. It is thus important to be able to identify these sequences in genomic and transcriptomic data.

Since several years, a large number of bioinformatic tools have been developed allowing a better identification of TEs in genomes. New tools are released regularly to follow the progress of sequencing technologies but also to answer particular biological questions allowing to go from the TE annotation in assembled or unassembled genomes, to insertion polymorphism detection in natural populations. The result is a particularly large choice for users leading to difficulties in the determination of the best tool(s) to use according to the case.

In this course, we aim at proposing an introduction of selected bioinformatic tools for the detection and analysis of TEs in genomic data (RepeatMasker, DnaPipeTE, T-lex).

See the full program here: https://-www.transmittingscience.com/courses/genetics-and-genomics/introduction-to-transposable-element-detection-using-sequencing-data/#program 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.

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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

UGroningen Netherlands PhylogeneticComparativeMethods Oct2-6

PhD/Postdoc course on Phylogenetic Comparative Methods in R, at the unique venue 'Natuurvriendenhuis De Hondsrug' at Noordlaren, Netherlands (< https:/-/www.google.com/maps/dir/53.1189916,6.6503698/-@53.1187384,6.6501709,17z > Google Maps) organized by the Research School Ecology & Evolution, University of Groningen.

For this occasion, professors Liam Revell (associate professor of biology at the University of Massachusetts, Boston) and Luke Harmon (professor of biological sciences at the University of Idaho), authors of the recently published book on Phylogenetic Comparative Methods, join professor Rampal Etienne at the Groningen Institute for Evolutionary Life Sciences, to teach this in depth course for a limited number of PhD students and Postdocs.

Aim of the course

Learn how to gain a solid foundation in the Phylogenetic Comparative methods and develop the skills you need to interpret patterns in the tree of life.

Contents & Structure

Phylogenetic comparative methods are a suite of statistical approaches that enable biologists to analyze and better understand the evolutionary tree of life, and shed vital new light on patterns of divergence and common ancestry among all species on Earth. This course shows how to carry out phylogenetic comparative analyses in the R statistical computing environment. Liam Revell and Luke Harmon provide an incisive conceptual overview of each method along with worked examples using real data and challenge problems that encourage students to learn by doing.

The course will be held in the beautiful rural area and forest of Noordlaren at 'Natuurvriendenhuis De Hondsrug' and starts Monday afternoon the 2nd of October 2023 and ends Friday the 6th at noon. The registration fee is euro 375,- for all PhD students belonging to the RSEE and affiliated research schools (PE&RC, WIMEK). All other participants pay euro 750,-. This includes lodging, meals, and the course material at the course venue.

The number of participants is limited to 20 max.

For more information and to register, please visit the course website or contact the Course organizer:

Dr. Corine Eising <c.m.eising@rug.nl> (Research School Ecology & Evolution)

c.m.eising@rug.nl

(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.