
E v o l D i r

September 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

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Aguascalientes Mexico GGBN Oct17-20

Dear collection-attuned colleagues,

we are still accepting abstracts for the upcoming GGBN International Conference on Biodiversity Biobanking, taking place 17-20 October 2023 in Aguascalientes, Mexico: <https://ggbn2023.weebly.com> Important deadlines: 1. General registration closes August 31st, late registration is open from September 1-October 1. 2. The last day to submit your abstracts is August 31st.

We look forward to seeing you in Mexico in October!
The GGBN conference planning team

Jonas Astrin Biobank Leibniz Institute for the Analysis of Biodiversity Change (LIB) Museum Koenig

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<https://bonn.leibniz-lib.de/en/biobank> <https://fogsportal.de> | <https://ggbc.eu> | <http://bolgermany.de> <https://biodiversitygenomics.eu> | www.ggbn.org

Leibniz-Institut zur Analyse des Biodiversitaetswandels
Stiftung des oeff. Rechts | Direktion: B. Misof, A. Grueter | Sitz: Bonn

Jonas Astrin <J.Astrin.ZFMK@uni-bonn.de>

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ArizonaStateU SMBE CellEvolution Sep1

“The key to every biological problem must finally be sought in the cell, for every living organism is, or at some time has been, a cell.” - E.B. Wilson

Hello, You are cordially invited to register for the SMBE Satellite Meeting on Mechanisms of Cellular Evolution. This four-day event is being organized by the Biology Integration Institute for Mechanisms of Cellular Evolution at Arizona State University and is in collaboration with the NSF BII for Mechanisms of Cellular Evolution’s Annual Symposium. The event is scheduled to take place from November 8-11, 2023, in Tempe, AZ and is the second in a series of annual events focused on the emerging interdisciplinary field of evolutionary cell biology (ECB). This field combines evolutionary biology and cell biology with other related disciplines, including biochemistry, biophysics, population genetics, molecular biology, and mathematics. The motivation behind this meeting is the simple point that the cell, organelles, and their contents define the natural settings within which genes, genomes, proteins, and other molecular features evolve. It follows that a stronger focus on the molecular features inside of cells and the constraints under which they function will lead to an improved understanding of evolutionary processes. Remarkably, despite well-established fields of molecular evolution, genome evolution, and evolutionary developmental biology, we still have no recognizable field of ECB. Our efforts with this symposium seek to change that. This symposium aims to bring together leading researchers and experts

from diverse scientific fields to discuss current advances and future directions in ECB, and to provide opportunities for interdisciplinary discussions, knowledge sharing, and collaboration. This year, our meeting will incorporate several broad themes within ECB. Keep reading to learn more about this event or register today!

About the Event

The following list includes the identified themes and their respective speakers:

Theme 1: The origin and diversification of macromolecular structures

Session A

Protein structural biology: evolution of simplicity vs. complexity Speakers: Georg Hochberg (Max Planck Institute for Terrestrial Microbiology, Germany) Christian Landry (Laval University, Canada) short talks selected from abstracts

Session B

Macromolecular structures in cell biology Speakers: Lillian Fritz-Laylin (University of Massachusetts Amherst, USA) Sonja-Verena Albers (University of Freiburg, Germany) Kazuo Inaba (University of Tsukuba, Japan) short talks selected from abstracts

Theme 2: Energetic costs and constraints of making a cell

Session A

Cell size constraints and growth laws Speakers: Suckjoon Jun (University of California San Diego, USA) short talks selected from abstracts

Session B

Metabolic networks underlying energy acquisition Speakers: Anja Spang (Royal Netherlands Institute for Sea Research, The Netherlands) Shelley Copley (University of Colorado Boulder, USA) short talks selected from abstracts

Theme 3: Precision of information transmission

Session A

Gene regulatory network rewiring Speakers: Alan Moses (University of Toronto, Canada) Sandy Johnson (University of California San Francisco, USA) short talks selected from abstracts

Session B

Gene expression heterogeneity, noise, and errors Speakers: Brian Metzger (Purdue University, USA) Audrey Gasch (University of Wisconsin Madison, USA) short talks selected from abstracts

Abstracts We will be soliciting for abstracts during the event registration process for both poster presentations and selected talks. The deadline for submission will be September 1, 2023 @11:59pm Arizona time. Responses to abstracts will be sent out no later than September 30, 2023.

Key Dates April 17, 2023 Event Registration OPENS Call for abstract submissions OPENS September 1, 2023 Call for abstract submissions CLOSES October 30, 2023 Registration CLOSES Contact Info For abstract or symposium related questions, contact the Program Manager, Josh Hoskinson, at josh.hoskinson@asu.edu.

Register Now

Joshua S. Hoskinson, M.S., M.A. Program Manager, Biological Integration Institute Biodesign Center for Mechanisms of Evolution Biodesign Institute, Arizona State University Mail Code: 7701 PO Box 875001 Tempe, AZ 85287-5001 p:602-543-4595 |c:951-836-1424 email:josh.hoskinson@asu.edu Pronouns: he/him/his ASU #1 in the U.S. for innovation U.S. News & World Report

Arizona State University acknowledges, with respect, that its physical locations are within the ancestral homelands of those Native American tribes that have sustained connections to its lands and waters since time immemorial, including the Akimel O'odham (Pima), Pee Posh (Maricopa), Quechan (Yuma), and Tohono O'odham peoples.

Josh Hoskinson <josh.hoskinson@asu.edu>

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Edinburgh UrbanBiodiversity Sep21-22

Dear All

A conference on 'Urban Floras - a Contribution to Biodiversity' will be held at the Royal Society of Edinburgh on the 21 and 22 September 2023.

Speakers include:

Sue Grimmond (Reading University) Wolfgang Hofbauer (Fraunhofer Institute) Sim Tang (Centre for Ecology and Hydrology) Vladimir Krivtsov (Edinburgh University) John Grace (Edinburgh University) Simon Hiscock (Oxford University) Richard Abbott (St Andrews

University) David Chamberlain (Royal Botanic Garden Edinburgh) Chris Preston (Cambridge) Hamlyn Jones (Dundee University) Brian Ballinger (Botanical Society of the Britain and Ireland) Michael Philip (Botanical Society of the Britain and Ireland) Beth Stagg (Exeter University) Isabella Cornwell (Edinburgh University) Kevin Frediani (Dundee Botanic Garden and Dundee University)

Programme and details for registration are available at: <https://botsocscot.wordpress.com/urban-biodiversity-conference-edinburgh-21-22-september-2023/> Registration cost is 40 with a reduced rate of 20 for students.

The RSE venue is in the centre of Edinburgh, UK, with a large number of hotels, restaurants and bars nearby. Delegates are requested to make their own accommodation arrangements.

Richard Abbott Emeritus Professor School of Biology, University of St Andrews St Andrews KY16 9TH, UK

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LeibnizInst PhDWildlifeResearch

Dear all,

the Ph.D. Symposium of the Leibniz Institute for Zoo and Wildlife Research (IZW) will take place again this year after a long break due to the pandemic. This Ph.D. symposium is not only for Ph.D. students, we appreciate it if bachelor or master students, postdocs, or even regular scientists participate!

The topic of the symposium is: Wildlife research: What is still missing? The aim is to set a stage to identify and discuss the particular challenges of wildlife research. From the normal workflow (idea, funding, study design, sampling, labwork) the problems will be identified so that a preventable approach is encouraged and solutions can be discussed.

The final program is yet to be announced, but registration is already possible at Registration here < <https://forms.gle/WrGME5XdbHD3w6LU7> >

You can count on interesting presentations, panel discussions, poster showcasing, and workshops - further

updates are available at Wildlife research: What is still missing? < <https://www.izw-berlin.de/en/6th-leibniz-izw-phd-symposium.html> >

If you have any questions or comments, please feel free to write to us (via izw-phd-symposium@izw-berlin.de). We would really appreciate it if you could circulate this announcement within your networks.

Your symposium committee, Marta Mosna, Ella White, Susana Soares, Sinah Drenke and Thibault Fronville Leibniz Institute for Zoo and Wildlife Research (IZW) in the Forschungsverbund Berlin e.V. :: Evolutionary wildlife research for conservation::

Alfred-Kowalke-Straiße 17 10315 Berlin GERMANY

Marta Mosna <marta.mosna@evobio.eu>

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London ConservationLivelihoods Oct12-13

Dear All,

Jersey Overseas Aid (JOA) and Durrell Wildlife Conservation Trust (DWCT) are thrilled to invite you to present at and/or attend the upcoming international “Biodiversity Conservation and Rural Livelihoods: A Shared Future” conference (<https://joa.je/news-events/2023/biodiversity-conservation-and-rural-livelihoods-a-shared-future>).

The Event:

The conference is scheduled to take place on the 12th and 13th of October 2023, at the DLA Piper offices in London. It will provide an ideal platform for scholars, researchers, practitioners, and industry experts to converge, exchange insights, discoveries, and experiences related to biodiversity conservation, climate change mitigation, and rural development.

Tickets cost €25, and you can register to attend on Eventbrite here: <https://tinyurl.com/53beh84n> *Abstract Submission:*

You are also invited to submit an abstract of no more than 250 words. Should your abstract be accepted, you will have the opportunity to present during the conference. The deadline for abstract submission is 14th August 2023. To submit your abstract, please fill

in this form: <https://tinyurl.com/3aypmcek> *Travel Bursaries*

A limited number of travel bursaries will be made available to those accepted to present from some areas outside of the UK. More details can be found here: <https://-joa.je/get-involved/travel-bursary-information/> *Communications:*

We kindly request that you share this call for abstracts with your colleagues, students, and anyone else who might be interested in contributing to the knowledge exchange at the “Biodiversity Conservation and Rural Livelihoods: A Shared Future” conference.

Should you have any enquiries or require further information, please do not hesitate to contact the Event Coordinator at stephanie.martin@durrell.org.

Thank you for your attention, and I eagerly anticipate your submission and/or registration.

Warm regards,

Stephanie

*Stephanie Martin *

*(she/her) *

Conservation Livelihoods Event Coordinator

Part time

Stephanie.Martin@durrell.org | www.durrell.org *Durrell Wildlife Conservation Trust*

Les Augres Manor, La Profonde Rue, Trinity, Jersey, JE3 5BP, Channel Islands

Durrell Wildlife Conservation Trust is a Registered Charity with the Jersey Charity Commissioner, registered charity number: 1Durrell Wildlife Conservation Trust - UK is registered in England and Wales. A charitable company limited by guarantee. Registered charity number 1121989

Stephanie Martin <stephaniemartin080@gmail.com>

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Online AnimalBehaviour Nov16-17

Dear Colleagues,

Our annual online conference is back for the fourth year in a row on 16-17 November 2023!

It will be a fantastic platform for animal behaviour researchers from around the world to come together, share their research and insights to make our community sustainable and inclusive.

As always, this conference will be FREE to attend but we ask you to register by clicking here < <https://forms.gle/kTwRxqjKh1h3GFbH7> > or visiting our website < <https://animalbehaviour.live/> >.

ABSTRACT SUBMISSIONS are also open now to present at the conference (deadline: September 11 2023) and you can submit one by clicking here < <https://forms.gle/7GexDA3DgTLwqxsm9> > or visiting our website < <https://animalbehaviour.live/conference/2023/> >.

Our organisation is small (we are a few early career researchers working on a voluntary basis) and the success of this event is based on the support of our community. For this reason, we would be particularly grateful if you could spread the word about this event to your colleagues and collaborators who you think may benefit from participating in the congress. To do so, you can forward this email to anyone you think would be interested in attending the event, or use the flyer of the event that you can find by clicking here < https://drive.google.com/drive/folders/1PU7yTTF3Rws2ZpdkcIJdm4ozfTY_Pm2V?usp=drive_link > or on our website (<https://animalbehaviour.live/conference>). In addition, you can also follow us on our different social media (<https://linktr.ee/animalbehaviourlive>) and forward our announcements about the congress.

We would like to thank you for your help, and hope to see you at the Animal Behaviour Live: Annual Online Conference 2023.

Kind regards,

The organising committee:

*Alexis Buatois https://www.researchgate.net/profile/Alexis_Buatois *Amanda Facciol https://www.researchgate.net/profile/Amanda_Facciol *David McCluskey*

*Ebi Antony George <https://ebiantonygeorge.com/>
 Valentin Lecheval <http://vlecheval.eu/>)

*Kenzy Peij $\frac{1}{2}$ a <https://www.researchgate.net/profile/Kenzy-Pena> *Laure Cauchard <https://www.researchgate.net/profile/Laure-Cauchard>

*Natacha Rossi https://www.researchgate.net/profile/Natacha_Rossi *Saeed Shafiei Sabet https://www.researchgate.net/profile/Saeed_Shafiei_Sabet
 Animal Behaviour <animalbehaviourlive@gmail.com>

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Online FrontiersInSocialEvolution Sep5-Dec12

Frontiers in Social Evolution <https://www.socialevolutionseminar.com> Free weekly online seminar, starting 5th September with season 7:

Every Wednesday at 17:00 (Paris) / 11:00 (New York)

Streamed live on Zoom (register with us to get the zoom link by writing to social.evolution.seminar@gmail.com).

and Youtube <https://www.youtube.com/@seminaronfrontiersinsocial1478> All talks stored in Youtube

We will have every week exciting talks on the topic of social evolution which you can watch for free via YouTube

Or via zoom if you

Why attend?

* Exciting seminars given by world-class scientists and rising stars * Unique format with in-depth discussions during hour following seminars * Supportive community * Opportunity to form collaborations * Opportunities for students, including short summaries of FINE seminars (Quick-FINEs) and FINE seminars by students

Program FINE Season 7:

05-Sep Vanessa Ezenwa, Yale University, USA

In sickness and in health: complex effects of social behavior on infectious disease

12-Sep Mark Harrison, University of Muenster, Germany

Molecular signatures of longevity in eusocial animals

19-Sep Peter M. Buston, Boston University, USA

Social Evolution in Anemonefishes: Formation, Maintenance, and Transformation of Social Groups

26-Sep Josh Firth, Oxford University, UK

The Behavioural Ecology of Contagions: Pandemics, Passerines, and Permuted Populations

03-Oct David Queller, Washington University in St. Louis, USA

Cheating in a social microbe

10-Oct Aubrey Kelluy, Emory University, USA

Neural mechanisms underlying grouping behavior in spiny mice (*Acomys cahirinus*)

17-Oct Ben Finkel, Boston University, USA

TBD

24-Oct O. Berger-Tal, D. T. Blumstein, A. Greggor and J. Swaddle

Panel Discussion on: Animal Behavior and Conservation

31-Oct Damien Farine, Australia National University, Australia

Uncovering the hidden social lives of birds

07-Nov Liz Lange. State University of New York at Oswego, USA

Setting the foundations for life: long-term effects of early life environments

14-Nov Janet Mann, Georgetown University, USA

Social bonds, reproduction and survival in wild bottlenose dolphins

21-Nov Thanks Giving

No Seminar

28-Nov Simone Pika, University of Osnabrück, Germany

Animal cognition: from corvids and chimpanzees

05-Dec Annemarie van der Marel, Chile

Socioecological environment of group-living species

12-Dec Vincent Viblanc, IPHC-DEPE, CNRS, Strasbourg, France

Social stress and its adaptive value in colonial mammals and birds

Puerto Iguazu Argentina Woodpecker Evolution Aug11-14

The Specialist Group Woodpeckers of the German Ornithological Society (DO-G) in conjunction with the Instituto de Biología Subtropical (IBS-UNAM-CONICET) announces the 9th International Woodpecker Conference that will be held in Puerto Iguazú $\frac{1}{2}$, Misiones province, Argentina, from 11 to 14 August 2024. The purpose of the meeting is to bring together woodpecker researchers from across the world, and in particular from South, Central and North America, and to provide an international forum on how woodpecker research may improve our understanding of ecology, behaviour, other aspects of biology, and forest management. The tentative schedule is as follows: 11 August - arrival and reception, 12 August - talks and posters, 13 August - excursion to Uruguay $\frac{1}{2}$ Provincial Park, 14 August - talks, and closing dinner. There will be four plenary presentations, by: Valeria Ojeda (INIBIOMA -CONICET, Argentina), Hugo Robles (University of Oviedo, Spain), Kerri Vierling (University of Idaho, USA) and Morgan Tingley (University of California, Los Angeles, USA). The venue of the meeting is the Panoramic Grand Hotel (<https://www.panoramicgrand.com/en>). Puerto Iguazú $\frac{1}{2}$ is located next to Iguazú $\frac{1}{2}$ National Park with the renowned Iguazú $\frac{1}{2}$ Falls and with one of the main protected areas of Atlantic Forest with woodpecker species such as Robust Woodpecker, Lineated Woodpecker, Helmeted Woodpecker, Blond-crested Woodpecker and Ochre-collared Piculet. The time of the conference is in late winter during the pair formation season of woodpeckers. Puerto Iguazú $\frac{1}{2}$ offers a wide range of lodging and eating options, multiple bird watching companies for optional pre- or post-conference excursions, as well as possibilities for independent travel. A website with a detailed conference schedule, a call for scientific contributions and logistical and travel information will be available in November 2023. Proceedings of the meeting will be published in *Acta Ornithologica*, and submissions of manuscripts for the proceedings based on talks or posters are welcomed but not obligatory.

The organizing committee (Elena Ballenthien, Kerstin Hi $\frac{1}{2}$ ntschi, Martjan Lammertink, Michael Lanz & Gilberto Pasinelli) and scientific committee (Elena Ballenthien, Dorota Czeszczewik, Jerome Fuchs, Martjan Lammertink, Victoria Saab, Ken Smith & Karen Wiebe) of the conference look forward to welcoming

you in Puerto Iguazú $\frac{1}{2}$. Please help spreading the word to make this 9th International Woodpecker Conference as interesting and successful as the previous ones. For inquiries: iguazu2024@vogelwarte.ch

Gilberto Pasinelli <gilberto.pasinelli@vogelwarte.ch>

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Singapore AsiaEvol Abstract submission Open

Dear colleagues, Abstract submission for the upcoming 3rd AsiaEvo conference is now open until Sep 15. You can submit your abstract here: <https://phyloref.org/> We have eighteen confirmed symposia as well as open symposia for talks that cannot easily be accommodated in the topics proposed. Conference registration will open in September. We are trying to make this conference as low-cost as possible. Costs will mostly involve food catering, poster board rentals, etc. University accommodation should be available to most participants for about ~\$40/night (students) and ~\$80 (non-students).

Confirmed symposia:

An evolutionary perspective on pollinator biodiversity, systematics, and conservation

Behavioral evolution in vertebrates: diversity, genomics and mechanisms

Early evolution of vertebrates from evo-devo and paleontological perspectives

Evolvability: a common currency of evolution, ecology and development

Fitness landscapes bridge evolution and molecular biology

Frontiers in vertebrate functional-morphological evolution studies

Genetics of adaptation and evolution of novel traits

Genomic diversity in nonequilibrium populations

Green computational technologies for evolutionary analyses

Impact of introgressive hybridization on tropical diversification

Marine evo-devo: new frontiers from emerging marine model organisms

Novel insights regarding genome architecture evolution in the arthropoda

Paleo- and macro- ecology in tropical asia

Probabilistic models for, and analysis of, gene content evolution in genomes

The evolution of invertebrate sensory ecology and behaviours

The genomics of adaptation and speciation

Virus evolution: from basic research to public health applications

Why sex? insights from asexual genomes

Open symposium

Antonia Monteiro <antonia.monteiro@nus.edu.sg>

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**TexasAMU SMBE
DeNovoGeneBirth Nov6-9**

Dear Colleagues,

Early bird Registration and Abstract submission for the

SMBE Satellite Meeting on De Novo Gene Birth will be open until AUGUST 31st.

This meeting will take place at Texas A&M University in College Station, TX, this November 6-9. More information and links to register are available here: <https://agriliferegister.tamu.edu/website/56645/> The meeting will be hosted at the Texas A&M Conference Hotel and Center, with rooms available to attendees at a discounted rate: <https://tinyurl.com/2ams6np5> This meeting is supported by the SMBE, the National Science Foundation, the Department of Ecology and Conservation Biology at Texas A&M University, the Graduate Program in Genetics and Genomics at Texas A&M University, the Texas A&M University School of Veterinary Medicine and Biomedical Sciences, and Visit College Station.

The organizing committee: Claudio Casola, Texas A&M University Li Zhao, Rockefeller University Victor Luria, Yale University Nikolaos Vakirlis, BSRC Alexander Fleming

For questions email Claudio Casola at ccasola@tamu.edu

Claudio Casola, Ph.D. (he/him/his) Associate Professor Department of Ecology and Conservation Biology Texas A&M University <http://agrilife.org/casolalab/> Claudio Casola <Claudio.Casola@ag.tamu.edu>

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GradStudentPositions

Barcelona ButterflyGenomics	9	Karkow Poland WoodpeckerHybrids	19
Berlin PlanktonEvolution	9	LundU PaleogeneticMicrobiome	20
Bialowieza Poland EuropeanBison	10	Montpellier PlantSexChromosomes	20
CharlesDarwinU InsectVectorEvolution	11	NHM UCopenhagen AvianEvolution	21
ConcordiaU EvolutionCooperation	12	NHM UOslo SystematicMycology	22
Crete Three BiodiversityComputing	13	PurdueU FishEvolution	23
DalhousieU MicrobialBioinformatics	14	SouthDakotaStateU GenomicsBioinformatics	24
DeakinU Australia AvianEvoDevo	14	Toulouse Palaeogenomics	24
DTU-Aqua Denmark PopulationGenomics	15	UBern BehaviouralEvolution	25
Helsinki HostSymbiontInteractions	16	UCalifornia SanDiego InsectEcoEvoDevo	26
IBE Barcelona GenomicsOfDomestication	17	UDayton AmphibianEvoDevo	27
Inverness Scotland FreshwaterBiodiversity	18	UGoettingen MolluscEvoDevo	27
JagiellonianU EvolutionOfAging	18	UIceland LichenBiology	28

UKansas PlantTelomereEvolution	29	UQueensland LifeHistoryEvolutionEcology	34
UMainz Germany AntSlaveryEvolution	30	UTasmania EvolutionMultipleSclerosisRisk	35
UMuenster HostParasite EcoEvo	30	UTexas Arlington EvolutionaryGenomics	35
UNorthernBritishColumbia BullTroutGenomics	31	VrijeU Brussel EvolutionFrogSexChromosomes	36
UOslo SystematicMycology	32	WageningenU ProteinEvolutionBioinformatics	37
UQuebec Rimouski MolecularAdaptation	33		
UQueenslandAustralia EcoEvoDynamics	33		

Barcelona Butterfly Genomics

PHD CONTRACT ON BUTTERFLY GENOMICS

The Butterfly Diversity & Evolution Lab in Barcelona offers a 4-year PhD contract associated to the new project Expanding Insect Genomics (EXIGEN; PID2022-139689NB-I00). Project. At least part of the research will deal with butterfly cryptic species and parapatric contact zones using RADseq and Whole Genome Sequencing. The exact research to be pursued and systems to be studied are somewhat flexible, and can be discussed with the selected PhD student. The group. The Butterfly Diversity & Evolution Lab is currently formed by 4 PhD students, 1 technician and the PI. We develop research on butterflies, but also on ants, nearly always including a component of genetics. We have a good record of excellent PhD theses and develop many collaborations worldwide. We truly believe in a new concept of science: collaborative, stress-free, non-discriminative, flexible in terms of personal organisation. You can check our activities at <http://www.biologiaevolutiva.org/rvila> The Institute of Evolutionary Biology (CSIC-UPF) <https://www.ibe.upf-csic.es> situated in Barcelona, Spain. It has a diverse and international community, and it is a great institution where to develop a PhD. Candidates. Requirements are: 1) Having completed a bachelor and master's degree related to Biological Sciences, in a broad sense. 2) Good English skills. Knowledge on bioinformatics, population genetics and/or butterfly taxonomy will be valued. What do we offer?

A 4-year predoctoral contract. Gross salary between 17,000 euro (first year) and 23,000 euro (last year) Additional funding to cover tuition, research secondment abroad, and publication costs. On top, money from the project will be used for enrolment in courses and workshops, attending to congresses, fieldwork, etc.

Timeline. The contract needs to be in place before the end of 2023. Thus, candidates are encouraged to apply before 15th September. Expression of interest. If you are interested, please send to Roger Vila (roger.vila@csic.es)

a brief letter of motivation, CV, and the BS and MS academic record (with average grades indicated). Selection process. The formal selection of candidates will be done through a future CSIC call under the call criteria: up to 50 points for academic and scientific/technic trajectory, and up to 50 points for candidate adequacy to the research.

Roger Vila Institut de Biologia Evolutiva (CSIC-UPF) Passeig Marítim de la Barceloneta, 37 08003 Barcelona, Spain e-mail: roger.vila@csic.es web: biologiaevolutiva.org/rvila

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Roger Vila <roger.vila@csic.es>

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Berlin Plankton Evolution

Project: "Impact of Urbanization on Plankton Evolution" (36 months)

JOB DESCRIPTION: The doctoral project, in the research group of Prof. Dr. Luc De Meester (Institute of Biology), will address how urbanization and urban-associated pollution in city ponds affect the ecology and evolution of aquatic organisms, using the water flea *Daphnia* as a model system. The project combines targeted field work with the isolation of *Daphnia* clones along an urbanization gradient in Berlin, common garden experiments using these *Daphnia* clones, and microbiome transplant experiments to quantify evolution and microbiome-mediated trait adaptation to pollution. The overall hypothesis is that there is a significant evolution- and microbiome-mediated enhanced tolerance of *Daphnia* to urban pollution that substantially contributes to *Daphnia* fitness in the presence of pollutants and its capacity to exert top-down control on phytoplankton. The project is part of a larger overarching team work on urban ponds and involves strong collabo-

rative efforts. The position is located at the Institute of Biology of the Freie Universität, but experimental work will be carried out at IGB (Leibniz Institute of Freshwater Ecology and Inland Fisheries, Friedrichshagen, Berlin), where the Daphnia culture and experimental rooms are located.

Your tasks: - designing and performing experiments with the water flea Daphnia, testing for evolution- and microbiome-mediated adaptation to urban pollution - targeted field work - statistical analyses of life-history traits and pollution tolerance data; and bioinformatic analyses of DNA data - publication of results in scientific journals and presentation at conferences - developing and delivering a doctoral dissertation

REQUIREMENTS: MSc degree in Biology or a related field.

YOUR PROFILE:

* - keen interest in experimental work; proven experience is a bonus * - strong statistics skills * - conceptual strength and keen interest in understanding eco-evolutionary interactions * - collaborative team worker * - good communication skills in English, including scientific writing * - strong work ethics

HOW TO APPLY? Submit your application (letter of motivation indicating research interests and experience, CV, certificates, contact information of two potential referees; as a single PDF document) to Ms Nadja Schüler (Office.Director@igb-berlin.de). Please use "PhD_Daphnia_DeMeester" as an email subject. Application deadline: 11.09.23. Enquiries can be directed to Prof. Luc De Meester at luc.demeester@igb-berlin.de.

Justyna Wolinska Group Leader (IGB) & Professor for Aquatic Evolutionary Ecology (Freie Universität Berlin)
justyna.wolinska@igb-berlin.de

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Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB) Müggelseedamm 301 12587 Berlin

www.igb-berlin.de <http://www.igb-berlin.de/en/-wolinska> Justyna Wolinska <justyna.wolinska@igb-berlin.de>

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Bialowieza Poland EuropeanBison

We seek an evolutionary biologist for a PhD position within a grant 'Historical morphometrics of the European bison skulls and its association with species inbreeding increase'. The project will be realized at the Mammal Research Institute, Polish Academy of Sciences, Białowieża, Poland.

The summary and objectives of the project:

European bison is a species of unique demographic history. It has been through an extremely severe bottleneck in the 1920s. The whole contemporary population originates from a meager group of founders. Just two of them turned out to be predominant, and their share in the contemporary gene pool is above 80%. The effects are extremely low genetic variation (Wójcik et al., 2009; Tokarska et al., 2009; Tokarska et al., 2011) and highly increased inbreeding level, reaching 75% (Pertoldi et al., unpublished). Although increased inbreeding is regarded as an important factor affecting the viability of a population, resulting in lowered genetic differentiation and decreased fitness, its impact on the European bison seems milder than might be expected. Long term fertility coefficients are stable and satisfactory (Kraśnińska i Kraśniński, 2017) and no indisputable inbreeding depression symptoms are observed (Tokarska et al., 2011). The reported potential inbreeding depression symptoms are related to skeleton conformation. Baranov et al. (1997) reported signs of developmental instability of skull morphology in the European bison skulls and indicated developmental instability as essential for characterizing the condition of the population. Analyses of fluctuating symmetry of the European bison, associated with genetic diversity (Makowiecka, 1994) suggest that the Białowieża line of the European bison had the lowest, unbeneficial, developmental instability as the result of inbreeding. Until recently, the only method of estimating inbreeding level was pedigree analysis - a rough and inaccurate method. The development of genomic techniques enables precise calculation of inbreeding level using high density SNP (single nucleotide polymorphism) set. This method has been successfully used in the European bison studies and allowed for the first, accurate inbreeding calculations, using ROH (Runs of Homozygosity) analyses (Iacolina et al., 2016, Pertoldi et al., unpublished) This project enables the actual effect of extreme inbreeding on skull

conformation in a historical context to be estimated, by association of genomic and morphometric data in one of the most inbred mammals known - the European bison. We will use hundreds of 3D skull scans from European collections and museums and juxtaposition them with their inbreeding level information based on SNP markers. The objective of the project is to specify whether and in what extent inbreeding level shaped the skull conformation of European bison individuals by answering three questions: Has the morphometry of the skull fluctuated over time? Has the growing inbreeding of the European bison influenced its skull morphology? If yes, what morphometric skull features have been affected by growing inbreeding?

The working environment

Mammal Research Institute, Polish Academy of Sciences (MRIPAS) in BiaÅ³owieÅa, funded in 1952, conducts research in the field of ecology, ethology, morphology, population genetics as well as population management and conservation of mammals and other terrestrial vertebrates. The mission of the Institute is to acquire, advance, and disseminate knowledge of natural patterns and processes in order to improve the scientific basis for effective nature conservation activities and sustainable development. We focus mainly on BiaÅ³owieÅa Primeval Forest (UNESCO Biosphere Reserve and World Heritage Site) as a study area, but also on other regions of Poland and Europe. The Institute employs 60 people, including researchers, PhD students, and qualified technical and office staff.

We provide:

1. Work in a friendly research team, in a well-equipped and organized laboratory with support and supervision of competent colleagues;
2. The possibility of effective scientific development through cooperation with the best world research centres;
3. Participation in an interesting scientific project with travelling opportunities;
4. The possibility to apply for inexpensive accommodation in MRI PAS flats.

PhD student tasks and duties within the project

Performing morphometrical measurements on modern and historical European bison skulls. Performing morphometrical analyzes. Presenting results and preparing drafts of scientific articles.

Requirements:

1. MSc degree in biology,
2. Experience in morphometric research, knowledge of

Landmark, Checkpoint or other programs,

3. Team cooperation skills,
4. Fluent spoken and written English,
5. Fun and excitement from performing science and presenting the results heartily welcome.

Required documents:

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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>

Charles Darwin U Insect Vector Evolution

PhD opportunity - Understanding gene flow and population structure in an animal disease insect vector

Charles Darwin University (CDU), Darwin, Australia is offering a 3 year PhD scholarship valued at \$46,000 AUD per annum for a PhD candidate to undertake an exciting project applying cutting edge genomics and bioinformatics tools and epidemiological modelling to understand gene flow and population structure in an animal disease insect vector in northern Australia and South-east Asia.

About the project: Culicoides biting midges, are important disease vectors for a range of viruses, bacteria and nematodes with the potential to introduce exotic animal diseases into Australia. The proposed project will apply genomic methods to understand population structure and gene flow in Culicoides midges across northern Australia and South-east Asia. The project will also analyse blood meal from populations using metabarcoding to obtain information on diet and host range. The project will provide crucial data for modelling dispersal of Culicoides midges in northern Australia and identify sampling approaches for future surveillance efforts.

Research environment: The National Industry PhD Program is an Australian Government initiative that connects PhD students with industry partners, to undertake a research project that addresses a sector-specific problem. The PhD candidate will be based at the new Research Institute of Northern Agriculture (RINA) at the CDU Casuarina campus but will also spend up to 50% of their candidature with the industry partner

working in an animal biosecurity diagnostic and research laboratory. RINA is a new CDU initiative to help northern Australia realise its potential as a food production heartland in the Asia Pacific region. Northern Australia is recognised as a high-risk zone for the introduction of exotic pests and pathogens, due to its vastness, remoteness and high vulnerability. The Tropical Biosecurity Group provides research to support a science-based approach to prepare, respond and manage pests, diseases and weeds with a focus on the development and implementation of genomic tools for improving biosecurity and biodiversity outcomes.

Scholarship and financial support: A National Industry PhD Scholarship valued at \$46,000 per annum, for a maximum of 3 years from commencement, is open to Australian citizens/residents or New Zealand citizens. International applicants are also welcomed to submit an expression of interest. If suitable, the student will be invited to apply for the International Research Training Program Scholarship scheme, and a tuition fee waiver scholarship.

Who are we looking for:

* First-class Honours or a Masters degree containing a substantial research component in a relevant field such as genomics, molecular biology or bioinformatics. * Interest in pursuing a career in biosecurity diagnostics and research. * Be willing to live and work in Darwin

Benefits to you:

* Generous stipend and support for project costs. * Develop highly desirable skills and knowledge for a career pathway in biosecurity. * Integral part of a multidisciplinary research team providing ample opportunity for professional development as well as career progression following completion of the PhD. * Access to Student Support Services and Wellbeing Support Program. * Work with a University committed to changing people's lives for the better through training, education and research.

Essential selection criteria:

* An Australian citizen or permanent resident, or a New Zealand citizen. International applicants are also welcomed to submit an expression of interest. If suitable, the student will be invited to apply for the International Research Training Program Scholarship scheme, and a tuition fee waiver scholarship * First-class Honours or a Masters degree containing a substantial research component in a relevant field such as genomics, molecular biology or bioinformatics * Publications, e.g. research reports, journal publications are highly desirable

How to apply:

* Interested applicants should contact Dr Maxine Piggott by email at maxine.piggott@cdu.edu.au to submit an expression of interest, attaching a CV including details of 2 academic referees and a brief statement describing your background, research experience and interest in this research project.

Deadline for applications: 20/9/23

Commencement date: ASAP

Principal supervisor: Dr Maxine Piggott, Professor of Tropical Biosecurity, RINA, Faculty of Science and Technology. Contact maxine.piggott@cdu.edu.au or (08) 89466763

Maxine Piggott <maxine.piggott@cdu.edu.au>

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ConcordiaU Evolution Cooperation

ConcordiaU Montreal Canada Evolutionary Mechanisms of Cooperation

A PhD (or MSc) research position is available in Prof. Robert Weladji's lab in Montreal, Quebec, Canada starting on January 2024.

Project description:

The aim of the project is to test key predictions of evolutionary explanations of cooperation and their interactions using female Norway rats living in semi-natural colonies as a model system. This research will involve using video recording of food donations and affiliative and agonistic interactions (cooperation, altruism, decision rules of cooperation, kin selection, reciprocity, enforcement). This project may involve working in the University of Gottingen (Germany).

Qualifications:

Suitable candidates will have an MSc (or BSc) in Biology or a similarly recognized degree. The ideal candidate must have: Very strong quantitative skills (statistics) - Be determined to complete a PhD degree - Have a good academic background (good GPA). The candidate should be ready to work in Canada and in Germany, and to work with a team.

I am particularly interested in candidate with some experience or background in the Evolution of Social Behaviour/Cooperation (or willing to invest in it).

Financial support is available for 4 years (PhD) or 2 years (MSc), but if eligible, candidates will be encouraged to apply for external grants (FQRNT and NSERC).

Application:

If interested, send me by email (robert.weladji@concordia.ca) before August 31st, 2023: a copy of your CV, transcript and a short statement of purpose, as well as the name and email addresses of 2 references.

Robert Weladji Department of biology Concordia University robert.weladji@concordia.ca www.robertweladji.com

Message en français

Un poste de doctorat (ou Maîtrise) en écologie est disponible dans mon laboratoire, débutant en Janvier 2024.

Description du projet:

L'objectif du projet est de tester certaines prédictions clés des explications évolutives de la coopération et leurs interactions en utilisant des rats de Norvège femelles vivant dans des colonies semi-naturelles comme système modèle. Cette recherche impliquera l'utilisation d'enregistrements vidéo de dons de nourriture et d'interactions affiliatives et agonistiques (coopération, altruisme, règles de décisions, sélection de parenté, réciprocité, la contrainte). Ce projet implique également de travailler à l'Université de Gottingen, en Allemagne.

Qualifications:

Le candidat idéal doit posséder: Très bonnes compétences quantitatives (analyses statistiques) - Expérience dans le domaine de la recherche sur le terrain - Avoir un doctorat - Avoir une bonne formation académique (bonne moyenne cumulative). Le candidat doit travailler au Canada et en Allemagne et travailler en équipe.

Je suis particulièrement intéressé par les candidats ayant une expérience avec l'évolution des comportements sociaux / la coopération (ou s'y investir).

Une bourse est disponible pour 4 ans (PhD) ou 2 ans (MSc), mais la personne recrutée sera encouragée à poser sa candidature pour obtenir des financements complémentaires (FQRNT et NSERC).

Application:

Si vous êtes intéressé, veuillez faire parvenir par courriel idéalement (robert.weladji@concordia.ca) d'ici le 31 août 2023: votre CV, un relevé de notes et une lettre de motivation, ainsi que le nom et l'adresse électronique

de 2 personnes pouvant fournir des références.

Contact me for details / Me contacter pour plus de détails Robert Weladji Department of biology Concordia University robert.weladji@concordia.ca www.robertweladji.com Sacha C. Engelhardt, Ph.D. Postdoctoral researcher Sociobiology/Anthropology Johann-Friedrich-Blumenbach Institute for Zoology und Anthropology University of Gottingen Kellnerweg 6 37077 Gottingen Germany +49 551 39 27358

"Engelhardt, Sacha Christoph" <sacha.engelhardt@uni-goettingen.de>

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Crete Three BiodiversityComputing

Dear Community,

There are three PhD positions with competitive salaries available in my new, second research group (<https://www.biocomp.gr/>) that I am currently setting up in Crete under the auspices of the EU ERA chair program. We are looking for computer scientists, Bioinformaticians or "programming Biologists".

If you want to do research where other people spend their vacations the Biodiversity Computing Group is the place to be.

To apply please follow the link below:

<https://euraxess.ec.europa.eu/jobs/131920> Please feel free to get in touch with me for an informal exchange on the setup, the projects, and the perspectives at stamatak@ics.forth.gr

Alexis

Alexandros (Alexis) Stamatakis

ERA Chair, Institute of Computer Science, Foundation for Research and Technology - Hellas Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology

www.biocomp.gr (Crete lab) www.exelixis-lab.org (Heidelberg lab)

Alexandros Stamatakis
<alexandros.stamatakis@gmail.com>

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DalhousieU MicrobialBioinformatics

The Beiko lab at Dalhousie University is seeking two highly motivated PhD students to carry out projects in microbial genomics and evolution. Key aims of these PhD positions will include:

- Using evolutionary methods to build new, modular representations of genomes - Building comprehensive maps of lateral gene transfer from multiple lines of evidence (phylogenomics, coevolution, etc) - Incorporating gene-order information to refine functional predictions of genes

Selected candidates will join an interdisciplinary team that carries out theoretical and applied research in microbial genomics, machine learning, and algorithms.

Projects will combine a range of techniques including existing tools and new tools to be developed. Students can be admitted to a Computer Science PhD program if they satisfy the requirements, the Interdisciplinary PhD program, or another PhD program under a co-supervisory arrangement. Students will be expected to present at national and international conferences, and lead the writing of manuscripts for publication in peer-reviewed journals. Software will be made available through the Beiko lab Github server and released under a permissive software license.

Trainees will be members of the Algorithms and Bioinformatics research cluster in Computer Science and the Dalhousie Institute for Comparative Genomics. Students will also have access to training programs offered internally by ICG and externally (e.g., Canadian Bioinformatics Workshops). Successful applicants will also have opportunities to collaborate with other academic researchers and with government agencies.

Qualifications:

- A Bachelors or Masters degree in a relevant discipline, with research experience - Some coding experience, ideally including Python or R - A strong background in a relevant discipline such as Computer Science, Biology, or Statistics - Excellent English communication skills (written and verbal) - Where necessary, English-language skills that meet or exceed the admissions requirements of the Faculty of Graduate Studies

Preferred:

- Experience with bioinformatics software - Experience

with statistical analysis - Familiarity with Linux and high-performance computing

We aim to foster a learning environment in which all individuals are supported during and after their graduate degree, and seek to reduce the inequities faced by people from historically marginalized groups.

Interested candidates should send a cover letter, CV, and contact details of two references to Rob Beiko (rbeiko@dal.ca). Start date can be January, May, or September 2024. Applications will be considered on a rolling basis.

Robert Beiko, PhD (he/him) Professor Director, Master of Science (Computational Biology and Bioinformatics)

Faculty of Computer Science < <https://www.dal.ca/~faculty/computerscience.html> > Institute for Comparative Genomics < <https://icgenomics.ca/> >

DALHOUSIE UNIVERSITY

Dalhousie University is located in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq. We are all Treaty people.

We recognize that African Nova Scotians are a distinct people whose histories, legacies and contributions have enriched that part of Mi'kma'ki known as Nova Scotia for over 400 years.

Robert Beiko <beiko@cs.dal.ca>

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DeakinU Australia AvianEvoDevo

PhD scholarship is available : Development of the avian clock Based at Deakin University, Victoria Australia Professor Kate Buchanan (Deakin University, Australia) Associate Professor Frédéric Gachon (University of Queensland)

We are seeking an outstanding, highly motivated PhD candidate to work on a new project examining the role of photoperiod in determining phenotypic plasticity the timing of life events, such as hatching and reproduction in wild zebra finches. The student will building on our earlier work demonstrating the fundamental role which early life conditions play in determining developmental programming for later life conditions. The student will quantify the role of photoperiod for reproductive timing, running a common garden experiment quantifying gene

expression, development and behaviour. The work will involve remote fieldwork, catching wild birds to relocate to breed in captivity. The PhD student will work in a vibrant and productive research team testing the role of environmental cycles for early avian development. The student can potentially learn a range of molecular techniques, endocrine and behavioural assays, neural gene expression and genomics analyses to assess physiological processes, as well as functional impacts. The student will be based at Deakin University, Geelong and co-supervised by Assoc Prof F Gachon (University of Queensland).

Stipend: AUD\$33,500 p.a. (tax exempt) for 3 years (international students: overseas tuition fee waivers are available) €PhD Project content: The student will join a productive ARC-funded team testing the effect of environmental cycles during early development on reproductive timing, gene expression and behaviour. This work will involve the euthanasia of a small number of animals, strictly regulated under local ethics permission. Working with captive aviary populations and also in the field, the student will have responsibility for designing experiments, sampling regimes, monitoring behaviour and environmental conditions. They will receive training in all these aspects. The project is funded by funding from Velux Stiftung and as such, involves clear aims to meet the stated objectives. However, we seek a student who is keen to develop their own interests and consequently find their own individual niche within the project.

For a description of the research groups see the following sites: <https://www.deakin.edu.au/about-deakin/people/kate-buchanan> Recent relevant publications from the Gachon group include: [https://www.cell.com/cell-metabolism/fulltext/S1550-4131\(18\)30631-4](https://www.cell.com/cell-metabolism/fulltext/S1550-4131(18)30631-4) <https://www.pnas.org/doi/10.1073/pnas.2015803118> The Research Environment: The successful candidate will be based in the School of Life and Environmental Sciences, at Deakin University's Geelong campus 50 minutes from Melbourne CBD, and 20 minutes from Bells Beach, Torquay Australia. Excellent facilities are available for the project, including a 300m² new aviary, modern lab and offices, well equipped 4WDs for fieldwork, excellent statistical support and established field sites for zebra finches. The Deakin research group has regular Ecology lab group meetings fostering a lively research culture. We strongly encourage PhD students to present at national and international conferences, and over \$3000 in support for conference attendance is provided for each PhD student. Additional opportunities are available for paid teaching /demonstrating work.

Who should apply? The scholarship would suit a highly motivated and able student with strong interests in avian

evolution, ecology, behaviour or neurobiology. Essential requirements include: Masters or first class honours (or equivalent in a relevant field); excellent written communication skills; high levels of enthusiasm, motivation; an ability to work independently and as part of an interdisciplinary team. A driver's licence is essential as field work may be required. Experience in field work with birds / behavioural analyses/ genomics are desirable, but not essential. The position will be based in Geelong, but with opportunities for work in Assoc Prof Gachon's lab at University of Queensland. Selection will be based on academic merit and prior experience.

Application deadline is 15th Sept 2023 and the successful student must start before 31st Dec 2023. For further information or to apply contact Prof Kate Buchanan (kate.buchanan@deakin.edu.au). To apply, please send a statement of your interest in the project, a detailed CV and contact details for two referees.

Kate Buchanan <kate.buchanan@deakin.edu.au>

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DTU-Aqua Denmark Population Genomics

PhD scholarship in climate change population genomics

Are you interested in working at the interface between genomics, climate change and biodiversity conservation and in answering the question: "How can we gain and use knowledge about climate change biodiversity effects and response for aquatic conservation and resource management?" Then, come and work with us at DTU Aqua!

A PhD Scholarship to study climate change biodiversity effects using comparative population genomic methods is available at the National Institute of Aquatic Resources (DTU Aqua; www.aqua.dtu.dk/english), Denmark, with starting date November 2023 (or earlier). The scholarship is part of a larger Nordic collaborative project, "BlueBioClimate", financed by the EU Interreg $\frac{1}{2}$ resund-Kattegat-Skagerrak Programme, the Danish Rod and Net License Funds, the Innovation Fund Denmark, private foundations and the National Institute of Aquatic Resources. The project will primarily be carried out at the Section for Marine Living Resources' population genetics group situated in Silkeborg, Denmark (www.aqua.dtu.dk/english/research/population_genetics). DTU Aqua is an institute at the

Technical University of Denmark.

The population genetics group applies molecular methods with the aim to gain knowledge on how to preserve and manage biodiversity in relation to recreational and commercial fisheries and aquaculture. Knowledge is achieved through research into the evolutionary processes responsible for generating and maintaining genetic diversity within and among populations of marine and freshwater organisms.

The project: The co-occurring climate and biodiversity crises present new challenges to conservation and management of natural resources. For example, we need to improve our knowledge about ecosystem resilience, and about how climate change affects genetic diversity and evolutionary responses in local populations, in order to safeguard natural resources and their sustainable development. New knowledge is urgent for management and conservation of aquatic biodiversity in coastal regions, which are already under severe pressure from a broad suite of human activities, and where practical spatial planning and conservation actions are often affected by a complex of considerations.

Genomic data across population levels provide information of relevance to conservation practitioners and have been integrated successfully with predictive frameworks in relation to effects from climate change. These approaches have also been further refined by integrating information about spatial connectivity and evolutionary processes at local population scales.

The overall purpose of the PhD project is to develop novel approaches to integrate genomic information with spatial management and conservation of biodiversity in collaboration with resource management practitioners at national and regional level. The successful student will apply a comparative population genomics approach and will, in collaboration with other project participants, take advantage of integrated information across multiple aquatic taxa (e.g. fish, shellfish, plants) and combine genomic data already available with new data produced in the project. We will conduct climate change vulnerability predictions and integrate information about ecological connectivity through collaboration in the project. The output will provide information of relevance to prioritize spatial management and conservation actions for selected species, areas and habitats. The project will focus on aquatic ecosystems at regional Scandinavian scales, with reference to wider geographical regions for context. In addition, the candidate will be encouraged to bring their own ideas and priorities to the project.

Qualifications: You must have a two-year master's degree (120 ECTS points) or a similar degree with an academic level equivalent to a two-year master's degree.

A background in population genetics is preferred and experience with bioinformatic analyses of large genomic data sets is an asset.

In addition, we are looking for candidates who have - Master of Science (M.Sc.) degree in Biology, Computer Science or Engineering - Keen interest in research and the field of marine and aquatic sciences - Good collaborative skills - Proficiency in written and spoken English

Salary and appointment terms: The appointment will be based on the collective agreement with the Danish Confederation of Professional Associations. The allowance will be agreed upon with the relevant union. The period of employment is 3 years. The starting date is November 2023 (or earlier).

The PhD student will be based at DTU Aqua in Silkeborg, Denmark, and will be integrated within the BlueBioClimate project and the population genetics group at DTU Aqua. Exchange visits to BlueBioClimate partners

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Helsinki HostSymbiontInteractions

Hi! There is still time to apply for this PhD position in my lab at the University of Helsinki:

<https://jobs.helsinki.fi/job/Helsinki-Doctoral-Researcher-in-Host-Symbiont-interactions/773731202/>
Doctoral Researcher in Host-Symbiont interactions

Doctoral Researcher in Host-Symbiont interactions
jobs.helsinki.fi

Topic: the Tripartite interaction between pollinators, their bacterial symbionts and their viral pathogens.

Fully funded 4year fellowship.

Contact: Dr. Anne DUPLOUY thank you!

Anne Duploux

Dr. Anne DUPLOUY Academy of Finland Research Fellow Insect Symbiosis Ecology and Evolution (ISEE), PI Organismal & Evolutionary Biology Research Programme (Organismi- ja evoluutiobiologian tutkimusohjelma) Faculty of Biological & Environmental Sciences

University of Helsinki, Finland

www.anneduplouy.net @duplouy_anne

“anne.duplouy@helsinki.fi” <anne.duplouy@helsinki.fi>

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IBE Barcelona GenomicsOfDomestication

PHD CONTRACT ON DOMESTICATION GENOMICS

The APG Lab (Ancient Population Genomics) in Barcelona offers a 4-year PhD contract associated to the new project “Genomic changes underlying domestication: novel hypotheses based on edible insects mass-reared within the EU” (DOMEUINSTITUTE; PID2022-142607NA-I00; <https://www.ibe.upf-csic.es/work-with-us/job-offers>).

Palaeogenomics has revealed when, where and who domesticated traditional livestock. What molecular pathways and evolutionary mechanisms trigger domestication, however, is still an open and hotly-debated question. This proposal will leverage edible insects as innovative model, to directly monitor a new wave of domestications for the first time in history. Insects sampled forward in time will be co-analyzed together with specimens from entomological collections, representing past archives of genetic diversity. The resulting time-stamped genomic series will document the evolutionary trajectory of four lines of *Tenebrio molitor*, prior to and during their domestication, based on understudied dimensions of diversity, including nucleotide, epigenomic and structural variation. The PhD candidate will be in charge of analyzing the genomic data sets to identify shifts in natural selection, disentangling early from later domestication stages, a task that will include the implementation of novel computational methods tailored to ancient DNA data.

The APG group is led by Dr. Pablo Librado, who recently joined the Institute of Evolutionary Biology (IBE; Barcelona). The group is aimed to be moderate in size, international and be characterized by a constructive and motivating environment, socially and scientifically. The IBE hosts an ancient DNA laboratory, and the PhD candidate will benefit from dedicated computing resources within the group, and from a senior technician who will be generating experimental data (the candidate

will be also invited to become familiar with laboratory procedures). DOMEUINSTITUTE additionally involves a team of bright international collaborators, hands-on experts on ancient and population genomics. Together, this warrants access to all needed resources to focus on learning, thinking and producing a high-quality PhD, paving the way for flourishing as a fully-trained investigator.

Candidates should be genuinely passionate for evolutionary questions, interested in successfully developing a PhD on population genomics and domestication. Other than this, requirements are: 1) Having completed a bachelor and master’s degree related to Biological Sciences, in a broad sense and 2) good English and social skills. Knowledge on bioinformatics (programming), population genomics, ancient DNA and statistics are also welcomed, as will be needed, but will be perfected during his/her PhD.

What do we offer? - A 4-year predoctoral contract. Gross salary between 17.000 (first year) and 23.000 euro (last year) - Additional funding to cover tuition, research secondments abroad, and publication costs. - On top, money from the project will be used for enrolment in courses and workshops, attending to congresses, fieldwork, etc.

The contract needs to be in place before the end of 2023 (and possibly even before, depending on official publication of the bases). Thus, candidates are encouraged to apply before 11th September. If you are interested, please send to Pablo Librado (pablo.librado@ibe.upf-csic.es) a brief letter of motivation, CV, and the BS and MS academic record (with average grades indicated). The formal selection of candidates will be done through a future CSIC call under the call criteria: up to 50 points for academic and scientific/technic trajectory, and up to 50 points for candidate adequacy to the research.

PABLO LIBRADO SANZ <pablo.librado@ibe.upf-csic.es>

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Inverness Scotland Freshwater Biodiversity

Dear EvolDir community,

UHI Inverness (Scotland, UK) is offering funded scholarships for its 2023-24 MRes in Freshwater Biodiversity and Conservation. This course includes opportunities to be trained in the application of genetic tools to conservation management.

The scholarship funding covers UK tuition fees and a support grant for project related costs such travel and consumables. A stipend is not provided.

The course also includes a compulsory one-week residential field course that will allow students to experience fieldwork in the lochs and rivers of the magnificent Scottish Highlands.

For more information, please visit <https://www.inverness.uhi.ac.uk/research/postgraduate-research/masters-by-research-mres-scholarships/>. Application deadline = 31st August 2023.

Samantha Beck <Samantha.Beck.ic@uhi.ac.uk>

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JagiellonianU EvolutionOfAging

Competition for the position of PhD Student within the grant

Competition for a doctoral scholarship within the project funded by the National Science Centre (OPUS 20) entitled: "The effect of aging on body temperature dependent oxidative stress: the burden of heterothermy", where the Ulf Bauchinger is the PI.

Place: Institute of Environmental Sciences, Faculty of Biology, Jagiellonian University

Position: PhD Student Requirements: The recruitment is connected with admission to the Doctoral School of Exact and Natural Sciences at Jagiellonian University for the academic year 2023/2024. Candidates must meet the requirements specified in the recruitment rules for the

Doctoral School of Exact and Natural Sciences. More information: https://science.phd.uj.edu.pl/en_GB/-rekrutacja/konkursy_otwarte/-/journal_content/-56_INSTANCE_RD1x0DYCtObf/142594442/-153955204 Candidate's profile: * MSc in life science (biology, ecology, evolution, zoology or related) * interest physiological ecology and animal metabolism * experience, or at least interest in experimental work with birds / * excitement to perform research in an international team * good level of spoken and written English

An additional advantage will be: * Achievements such as publications or conference presentations are considered advantageous

Project description: As endotherms, mammals and birds have evolved the capacity to thermoregulate, an evolutionary achievement with profound impact on biology and ecology. Endothermy, however, does not necessarily entail a constant body temperature throughout a day, a year or a life time. Instead, many mammals are known to hibernate seasonally or enter torpor, reducing their body temperature by a few °C to several tens of °C below the normothermic level. Birds are known to also become torpid or and reduce body temperature during the night by rather a few °C with some exceptions of up to two tens of °C. These on first sight small temperature drops may, however, have profound effects on enzymatic activity. The rate of biochemical reactions in general, and enzymatic reactions in particular are highly temperature dependent, which also applies to enzymes that act as antioxidants against free radicals. They protect against the negative effects of oxidative stress through free radical scavenging and if this protective enzymatic action is reduced in its rate, free radicals may remain unchecked, which may lead to oxidative damage of biomolecules. Such oxidative damage risks functional integrity of biomolecules and is currently one of the most frequently forwarded driver of aging. This research is designed to understand how regulation of body temperature may be hampered by increasing age and how this impaired thermoregulatory capability may lead to increased oxidative stress when animals grow old.

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

related to the rate of oxidative damage.

Employment conditions: Scholarship: The scholarship amount is in accordance with the requirements of the Doctoral School. Start date: October 2023 Duration of the scholarship agreement: 48 months

Application deadline: August 25, 2023 Application submission method: Applications are submitted through the irk.uj.edu.pl system.

For further information please contact Ulf Bauchinger (ulf.bauchinger@uj.edu.pl)

Ulf

dr hab. Ulf Bauchinger professor UJ Institute of Environmental Sciences Jagiellonian University Gronostajowa 7 30-387 Kraków Poland

++48126645150 ulf.bauchinger@uj.edu.pl

Ulf Bauchinger <ulf.bauchinger@uri.edu>

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Karkow Poland WoodpeckerHybrids

Krakow_Poland.WoodpeckerHybrids

Institute: Institute of Systematics and Evolution of Animals Polish Academy of Sciences Title: Hybridization with a common relative - the threat or chance for the protected bird species?

Scientific discipline: biological sciences Name of potential supervisor dr hab. ukasz Kajtoch, prof. ISEA PAS (ORCID 0000-0001-7345-9400)

The doctoral fellowship is funded by a research fellowship in the project of the National Science Centre (Preludium BIS) “Hybridization with a common relative - the threat or chance for the protected bird species?” (UMO-2022/47/O/NZ9/02044, PI: . Kajtoch, unit: Institute of Systematics and Evolution of Animals PAS).

Summary of the project idea: <https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2022-09-15du59ho/streszczenia/576334-pl.pdf> Background information: Species are assumed to be reproductively isolated from other taxa, which is the principal rule in the biological species concept. However, mating of various taxa is possible and could lead to the development of hybrids. In birds, misallies occur quite often - they have been documented in the case of

approx. one-fifth of the studied species.

Woodpeckers are no exception, but hybrids are known mainly for the American genera. In Europe, the most commonly observed hybrids are progenies of the Syrian Woodpecker (*Dendrocopos syriacus*) and the Great Spotted Woodpecker (*Dendrocopos major*). This pair of species is especially interesting for studying hybridization in birds, as the taxa met very recently (in evolutionary timescale) in artificial conditions (synanthropic), and their crosses are viable and fertile. Moreover, hybridization could be a threat to Syrian woodpecker populations. Important is to highlight that Syrian woodpecker is rare and a species protected by the Birds Directive of the EU.

Apart from leading to scientific findings (evolutionary perspective), this project should develop new strategies for the proper protection of SW and its hybrids (conservation perspective). The main question to be addressed in the project: The major goal of the project is to use information about the structure of sympatric populations of Syrian and great-spotted woodpeckers to assess the impact of interspecific mating and hybridization on the conservation of Syrian woodpecker as a species of special concern in the EU. For this purpose, it is intended to solve specific hypotheses which are focused on the prediction that the extent of interspecific pairing and hybridization is a result of current parental species distribution and environmental constraints like the availability of suitable habitats and species selection to various landscape types. It is planned to examine the span of interspecific mating and hybrid occurrence in various scales: European, regional (examination along an urban-rural gradient in Central Europe) and local (ecology, population structure and reproductive success).

Major hypotheses: (H1) Interspecific mating increases i) from the core to the verge of Syrian woodpecker range, ii) with decreasing gradient of SW density in local populations. (H2) Hybridization is more frequent in urban than in rural populations. (H3) Interspecific pairs are formed via assortative mating of Syrian females with great-spotted males. (H4) The number of offspring (juveniles) does not differ substantially in intra- and interspecific pairs of woodpeckers. (H5) Hybrids are more frequent in immature than adult birds.

Information on the methods/description of work: Above listed issues will be examined based on field surveys made by PhD student and PI with the contribution of data collected by cooperating ornithologists according to “citizen science”. Moreover, the share of hybrids and backcrosses will be examined for selected populations with the use of molecular methods. The cooperation with specialists in woodpeckers ecology, phylogenetic

ics and hybridization in birds from foreign institutions (e.g. Institut de Systématique, Évolution, Biodiversité, Muséum of Natural History, Paris; Charles University in Prague; Hungarian Woodpecker Working Group - Birdlife Hungary) is planned. Finally, it is planned to use data from bird monitoring programs in Poland, Hungary and other countries for assessment of the impact of interspecific mating and hybridization on the population status of Syrian woodpeckers in its core and peripheral range in the EU.

Additional information (e.g., special requirements from the student): The candidates need to have: - M.Sc. degree in a biology, environmental protection, forestry or related fields. - Interest in zoology, ecology and evolutionary biology. - Good knowledge of English. - Familiarity with statistics and GIS. - No contraindications to field and laboratory work.

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LundU PaleogeneticMicrobiome

Title: LundU.Paleogenetic&Microbiome

A 4 years Ph.D. in Computational Biology is available in Lund, Sweden.

We are seeking a highly motivated student for a four-year Ph.D. position in Computational Biology to develop machine learning tools to study the origin of the Vikings and ancient Israelites using ancient DNA and microbiome data.

The position is available immediately.

Candidates are expected to have strong computational and analytical skills and an interest in biology and human history. Candidates should have a background in mathematics, statistics, physics, computer science, and/or a related field.

Candidates are also expected to have fundamental knowledge and experience with Machine Learning methods.

The salaries in Sweden are high and include benefits.

The candidate will work jointly with Dr. Eran Elhaik (<https://www.ernalhaiklab.org/>) of the Department of

Biology, Lund University, and collaborators from other departments and universities.

- Please Apply here: <https://lu.varbi.com/en/what:job/-jobID:645629/> For questions, contact: Dr. Eran Elhaik eran [dot] elhaik (@) biol [dot] lu [dot] se

<https://www.ernalhaiklab.org/> Lund University Department of Biology Sölvegatan 35 SE 223 62 Lund

Many thanks!

Eran Elhaik, Ph.D. Assoc. Professor in genomics

Lund University Faculty of Science Department of Biology SE 223 62 Lund Visiting address: Sölvegatan 35

Tel: +46 46-222 9419 Fax: +46 46-222 44 25
eran.elhaik@biol.lu.se <http://www.ernalhaiklab.org/>
Eran Elhaik <eran.elhaik@biol.lu.se>

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Montpellier PlantSexChromosomes

Dear colleagues,

We have a three-year PhD position in a collaborative project between the University of Montpellier (France), Biopolis (Porto, Portugal) and the ETH Zurich (Switzerland).

Title: Genomics of sexual systems and adaptation in an alpine plant, *Silene acaulis*

Description: The thesis will be focused on the *Silene acaulis* species complex, consisting of several subspecies adapted to life at high altitudes and latitudes. While most flowering plants have hermaphroditic flowers (with both pistils and stamens), *Silene acaulis* is particular in that several subspecies have different sexual systems, including dioecy (separate female and male plants) and gynodioecy (separate female and hermaphroditic plants). In dioecious plants, sex can be determined by sex chromosomes, as in many animals, but currently only few sex chromosomes have been identified in plants, and the conditions for the evolution of such chromosomes are currently debated. Furthermore, as dioecy imposes outcrossing, the sexual system could have an impact on the efficacy of selection and the capacity of a species to adapt. The existence of several sexual systems within the *S. acaulis* complex offers an exciting possibility to address these questions, using a newly assembled genome

as well as DNA and RNA sequencing data from individuals of several populations.

Skills/requirements: A Master degree in evolutionary biology or related fields. A first experience in genomics and bioinformatics is required. The candidate should be able to work independently, to organize her/his work efficiently, and should have the capacity to communicate clearly and synthetically (oral and written communication). The candidate should be fluent in English, and comfortable working in an international environment. Some knowledge of French, in particular, is helpful for extra-professional life in France.

Thesis organization: The thesis will be officially hosted at the GAIA Doctoral School of the University of Montpellier and based at ISEM (Institute of Evolutionary Science of Montpellier), and supervised by Sandrine Maurice and Jos Käfer. The thesis will be co-supervised by Gabriel Marais at CIBIO (Porto, Portugal) and Alex Widmer and Martin Fischer at ETH Zurich (Switzerland), and the candidate will spend up to one year in each of these institutions. At ISEM, Sandrine Maurice and Jos Käfer in the “Evolution and Demography” team focus on the study of rare plants and plant reproductive systems. At CIBIO, Gabriel Marais is a specialist in the genomics of sex chromosomes, and at ETH Zurich, Alex Widmer and Martin Fischer of the Plant Ecological Genetics group work on sex determination and speciation in plants.

How to apply: Send a motivation letter, a CV, and two contacts for reference to jos.kafer@cnrs.fr before 31 August 2023. Selected applicants will be invited for an online interview in September. The thesis will start between 15 October 2023 and 1 January 2024.

Jos Käfer CNRS Research associate in evolutionary plant biology Institut des Sciences de l'Evolution de Montpellier (ISEM)

Jos Käfer <jos.kafer@cnrs.fr>

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NHM UCopenhagen AvianEvolution

PhD fellowship in evolutionary and conservation genomics

PhD Project in consequences of flightlessness in avian evolution

<https://jobportal.ku.dk/phd/?show=159806> Natural History Museum Denmark Faculty of SCIENCE University of Copenhagen

The Zoology section at the Natural History Museum Denmark invites applicants for a PhD fellowship in fields of evolutionary and conservation genomics. The fellowship is funded by the research project “Causes and consequences of flightlessness in birds”, financed by Danmarks Frie Forskningsfonden (DFF; Independent Research Fund Denmark).

The start date is expected to be 1 December 2023 or as soon as possible thereafter.

The project The PhD project aims to investigate the consequences of the evolution of flightlessness in birds utilizing genomic data. The study will explore the genetic mechanisms and evolutionary processes underlying the spectrum of flight capacities across bird species. The project will also examine the potential trade-offs associated with flightlessness, such as changes in morphology, metabolism, behavior, and population size. By analyzing genomic data from both flightless and flight-capable bird species, this research seeks to unravel the genetic signatures and functional implications of flightlessness, shedding light on the evolutionary consequences and adaptive trajectories of this intriguing phenomenon in avian evolution.

Who are we looking for? We aim to recruit a candidate with academic interests and experiences related to evolutionary biology, population genetics, genomics, and phylogenetics of non-model organisms. Expertise with birds is desirable but not required.

Research environment The selected candidate will be part of a research team at the University of Copenhagen that focuses on the intersection of biogeography, evolution, and phylogenetics. The team uses new materials from the field alongside the historical specimen collections held at the Natural History Museum of Denmark to investigate diverse aspects of avian biology, to unravel the evolutionary history and biogeographic patterns of birds. Using a foundation of DNA sequence data to infer historical relationships, we explore the ecological and evolutionary factors driving the diversification of species and their traits, including morphology, behavior, and adaptation to different environments. The team is positioned in the Natural History Museum Denmark, Faculty of SCIENCE, University of Copenhagen; and it also has an affiliation with the Center for Macroecology, Evolution, and Climate, Globe Institute, Faculty of SUND.

Principal supervisor is Assistant Professor Peter A. Hosner, Natural History Museum & Globe Institute, pe-

ter.hosner@snm.ku.dk

The PhD programme This fellowship opportunity is a three-year full-time study within the framework of the regular PhD program (5+3 scheme) at the SCIENCE faculty and is only for candidates that have an education equivalent to a relevant two-year Danish master's degree.

Qualifications needed for the regular program To be eligible for the regular PhD program, candidates must have completed a degree program equivalent to a Danish master's degree (180 ECTS/3 FTE BSc + 120 ECTS/2 FTE MSc) related to the subject of the project, e.g. biology, ecology & evolutionary biology, zoology, etc. For information on eligibility of completed programs, see General assessments for specific countries and Assessment database.

Terms of employment in the regular program Employment as PhD fellow is full-time and for a maximum of 3 years.

Employment is conditional upon successful enrolment as a PhD student at the PhD School at the Faculty of SCIENCE, University of Copenhagen. This requires submission and acceptance of an application for the specific project formulated by the applicant.

The terms of employment and salary are in accordance with the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State (AC). The position is covered by the Protocol on Job Structure.

Responsibilities and tasks in the regular PhD program:

- Carry through an independent research project under supervision
- Write and defend a PhD thesis
- Write scientific papers aimed at international research journals
- Obtain experience in knowledge dissemination activities, including international conferences
- Participate in active research environments, including a fully funded research stay at a research institution abroad
- Complete PhD courses corresponding to approx. 30 ECTS / \hat{A} $\frac{1}{2}$ FTE

Useful experiences and skills:

- A two-year master's degree equivalent to the Danish program in evolutionary biology or a related field (required)
- Experience preparing manuscripts for peer-reviewed journals
- Competencies in scientific writing
- Formal and informal communication skills



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NHM UOslo SystematicMycology

PhD Research Fellow in Systematic Mycology

<https://www.jobbnorge.no/en/available-jobs/job/-248954/phd-research-fellow-in-systematic-mycology>

Job description

At the Natural History Museum (NHM), University of Oslo (UiO), we have a vacancy for a four-year PhD research Fellow in Systematic Mycology. The position includes one year of duty work (distributed over the employment period) that includes various meriting activities (e.g., teaching, specimen curation, outreach activities, and student supervision). Starting date: January 1st 2024, or as soon as possible thereafter. More about the position This PhD opportunity allows you to engage in a self-developed and innovative systematics research project on fungi, or plants in combination with fungi. The successful candidate for this position will work in close collaboration with staff members of the ISOP research group, primarily with Mika Bendiksbj and Charlotte BjorÅŸ.

In our research, we focus on the discovery, understanding, protection, and utility of fungal and plant diversity. We often use a phylogenetic approach on genomic data to study a range of biological aspects in fungi and plants, and fungarium- and herbarium specimens are important data sources and depositories in our research. An ideal project will effectively utilize NHMs fungal and/or plant collections, include fieldwork for collecting new materials, and align with our research profiles and ongoing activities. The ISOP group has a strong record for field-based research in the Arctic, Nordic countries, east-and Southern Africa, and Indonesia. It is desirable that the proposed PhD project aligns well also with at least one of the research themes at our museum-wide research hub STADIS. The hub focuses on stability and discontinuity within and between different biological system levels, such as genomes, phenotypes, species, communities, and ecosystems. For almost 200 years, specimens of fungi and plants have been collected, studied and preserved at NHM. The improvement, maintenance and use of scientific collections is central to our work. The herbarium and fungarium comprise over 1.2 million plants and 600,000 fungal specimens, of which the majority are Nordic. The museum provides excellent research facilities in-house, including various molecular- and microscopy laboratories. NHM has ten research groups

that pursue research and education within basic and advanced biosystematics and biodiversity as well as geological studies.

Qualification requirements

The candidate must have:

A degree equivalent to a Norwegian master's (MSc) in biology. Other relevant backgrounds might be considered upon individual evaluation. For candidates not having finished their master's degree, the thesis must have been submitted for evaluation by the closing date of the call. It is a condition of employment that the master's degree has been awarded with at least an equivalent to grade B in the ECTS grading scale.

The ability to work independently and in a structured manner

The ability to cooperate with others

Excellent communication skills (including written and spoken English)

It is preferable that the candidate has (and can document) one or more of the following competences: A degree equivalent to a Norwegian master's (MSc) in systematic mycology/botany Knowledge and research experience with DNA-based techniques applied in biosystematics and biodiversity studies

Experience in relevant analytical/statistical methods and bioinformatics tools (e.g., phylogenetics, R)

Data management skills following best reproducible open science practices

Experience with microscopy

Ability to do field work in remote and potentially challenging environments

Hold a driver's license

Experience with scientific publication and outreach

Experience in collection-based research (using physical and/or digital specimen data)

Strong team- and networking skills Personal skills We are looking for a highly motivated, creative, and structured candidate with excellent collaborative qualities.

Research experience, ambitions, and potential will also count when evaluating the candidates.

We offer a dynamic friendly and professionally stimulating working environment

salary NOK 532 200 - 575 400 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017) Membership in the Norwegian Public Service Pension Fund

Attractive welfare benefits

How to apply

The application must include the following six elements as separate documents:

A one-page (maximum) application/cover letter with a brief account of your motivation for applying for the position A self-developed and innovative research project (following the template for this position provided here: [template_for_project_description.docx\[MB1\]](#) ; max 2 pages!

CV (either as an attachment or filled into our electronic recruitment

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PurdueU FishEvolution

PhD and MS Assistantships: Fish Ecology and Evolution Purdue University, Department of Forestry and Natural Resources West Lafayette, IN, USA

Description: PhD or MS student assistantships available to participate in research projects exploring dynamics of fish in large lakes. These projects involve an integration of field studies, laboratory analyses, and bioinformatic analyses. Selected individuals will enroll in Purdue University's Department of Forestry and Natural Resources (www.ag.purdue.edu/fnr) in West Lafayette, IN.

Specific research topics may include:

Quantifying lake trout reproductive utilization of Klondike Reef in Lake Superior Determining how morphological, physiological, trophic, and genetic characters differentiate lake trout ecotypes in Lake Superior. Exploring trophic spatial variation and connectivity among fishes in large lakes (North American Great Lakes and large Swedish lakes)

Qualifications: Minimum qualifications include a BS (for MS position) or MS (for PhD position) in Biology, Ecology, Fisheries Science, or related field; GPA of 3.2 or greater.

Salary: Assistantships include 12-month stipend, full tuition coverage, and insurance.

Start date: January 2024.

How to Apply: The positions will remain open until filled. For full consideration, please respond by 1-September-2023 and submit cover letter, CV, GRE scores (optional; unofficial is fine), transcript (unofficial), and names and contact information for three references to Peter Euclide (peuclide@purdue.edu; 765-496-9717; <http://web.ics.purdue.edu/~thook> and <https://peuclide.github.io/>).

For more information please contact:

Peter Euclide Tomas Hook peuclide@purdue.edu
thook@purdue.edu

Purdue University is an EEO/AA employer. All interested individuals are encouraged to apply.

“Euclide, Peter Thomas” <peuclide@purdue.edu>

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university and the state’s largest institution of higher education well equipped with a high-performance computing network (<https://www.sdstate.edu/geography-and-geospatial-sciences/high-performance-computing>).

As a typical college town, Brookings has a population of ~23,000, an excellent K-12 education system, an active cultural and social environment, and many lakes and parks. Brookings is about a 40-minute drive to Sioux Falls, the largest city of South Dakota with district airport.

To apply, send a cover letter with a CV and contact information (phone and email) for three references to Drs. Wanlong Li and Charles Fenster at wanlong.li@sdstate.edu and charles.fenster@sdstate.edu.

“Fenster, Charles” <Charles.Fenster@sdstate.edu>

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SouthDakotaStateU GenomicsBioinformatics

A Ph.D. student position for plant genomics/bioinformatics is available for enrollment in spring 2024 in the Department of Biology and Microbiology, South Dakota State University, Brookings, South Dakota. The incumbent will deploy genomic and bioinformatic pipelines to analyze next-generation sequencing data and work on plant genome assembly, annotation, genome-wide comparison and mutation analysis in wheat and Arabidopsis and assist on analysis of wheat proteomics data.

The candidate should have a B.Sc. or M.Sc. degree in biology, computer science, or a related major and experience of one year or more on plant genomics, bioinformatics, computational biology, or a closely related field and is familiar with the Linux system and R programming. Other requirements will include a demonstrated ability to manage multiple projects with flexibility and a proven ability to work closely with colleagues.

Detailed information about the Department of Biology and Microbiology can be found at the website <https://www.sdstate.edu/biology-and-microbiology>. The following links will provide an overview of ongoing activities in the respective Li and Fenster labs: <https://wheatgenomics-sdsu.github.io/> <https://charlesbfenster.wordpress.com/> SDSU is a land-grant

Toulouse Palaeogenomics

Application portal: <https://emploi.cnrs.fr/-Offres/Doctorant/UMR5288-STEBRU-001/-Default.aspx?lang=EN> Job description:

Offer title :PhD position in human Palaeogenomics (M/W) (H/F) Reference : UMR5288-STEBRU-001
Number of position : 1 Workplace :TOULOUSE Date of publication :03 August 2023 Type of Contract :PhD Student contract / Thesis offer Contract Period : 36 months Start date of the thesis : 1 November 2023 Proportion of work :Full time Remuneration :2 135,00 euro gross monthly Section(s) CN :Humans and environments: evolution, interactions

Description of the thesis topic

In the framework of the research project GenIn « Characterizing the deep roots of Gender Inequalities through molecular archaeology », the CNRS Occitanie-Ouest is offering a fully-funded 3-year position in human palaeogenomics.

The PhD student will receive training from experts and undertake cutting-edge research in archaeo-anthropology and palaeogenomics.

The project GenIn aims at leveraging the latest advances in molecular archaeology, combined with archaeology, anthropobiology and geochemistry, to better understand the deep roots of gender inequalities by exploring the sta-

tus and life of women and men during the late Neolithic in present-day France territory.

The primary aim of the PhD project is to reconstruct and analyse ancient genomic data of late Neolithic individuals. When integrated to archeo-anthropological contexts, this new molecular data will enable the exploration of potential contrasts between men and women regarding their health, their position in familial and social networks as well as their respective contribution to the genetic make-up of the population. The analyses will use state-of-the art palaeogenomics methods to screen and recover ancient DNA data (using whole genome sequencing or targeted enrichment techniques depending on preservation conditions) from human skeletal remains dating ~3500-2500 Before Common Era and excavated in present-day Southern France.

The PhD candidate should have a background in molecular genetics, evolutionary biology, bioinformatics, palaeogenomics or a related field. Knowledge in statistical and bioinformatics analyses is expected, as well as an interest in archaeology and anthropology.

Experience in a molecular biology laboratory will be a plus.

The successful candidate will be involved in all aspects of the project (except for field work), from laboratory work and data analysis to the dissemination of results. Research results will be published in international peer-reviewed journals, and disseminated through oral presentations in national or international conferences and in general public seminars.

Candidates must have excellent communication skills, be self-motivated and able to work both independently and as part of a team. Candidates should be able to communicate (speaking + writing) in English. Being able to communicate in French is not required.

The CAGT wishes to reflect the diversity of society and welcomes applications from all qualified candidates regardless of social background, disability, gender, nationality, religion or sexual orientation.

Work Context:

The PhD student will be part of an ANR (French National Research Agency) project led by Dr Andaine Seguin-Orlando, associate professor in palaeogenomics at the University Paul Sabatier Toulouse 3.

The Centre for Anthropobiology and Genomics of Toulouse (CAGT, UMR 5288) is part of the University Paul Sabatier of Toulouse 3 (UT3) and the French National Centre for Scientific Research (CNRS). Offices and laboratories are located in the historical heart of Toulouse (500 000 inhabitants, including 130 000 stu-

dents).

With 50+ employees, the CAGT offers an international and multidisciplinary research environment. The facility includes aDNA clean-labs and post-PCR facilities, fully equipped for aDNA extraction, library construction, amplification, quantitation, purification and sequencing (Illumina MiniSeq). Enhanced computing (640 CPUs, 6.4Tb RAM) and data storage capacities (4.0PTb in total) are available for High-Throughput DNA sequencing data. The GenoToul platform also provides enhanced computing power (392 cores, 4.7Tb RAM) and storage capacities.

The PhD candidate will work in an interdisciplinary framework and will be a member of the Archaeology, Genomics, Environment and Societies (AGES) team, headed by Ludovic Orlando.

Andaine Seguin <andaine.seguin@univ-tlse3.fr>

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UBern BehaviouralEvolution

PhD position in Behavioural Ecology - University of Bern

Start of employment: negotiable (ideally December 2023).

One fully funded, 4-year PhD position is available in the Division Behavioural Ecology (<https://www.behav.iee.unibe.ch/>) led by Prof. Eva Ringler at the University of Bern, Switzerland. This position is part of the research project "Facilitators and constraints of behavioural flexibility" financed by the Swiss National Science Foundation (SNSF). In this project, we will investigate behavioural flexibility from a behavioural, hormonal, and neuronal perspective.

Topic While the ecological and evolutionary significance of behavioural plasticity is well recognized, we still know little about the physiological processes that facilitate flexibly switching between several, potentially conflicting behaviours. To understand how animals manage dynamical behavioural adjustment to changing environmental contexts, we need to identify mechanisms that enable - or constrain - behavioural flexibility in ecologically relevant settings. In this project, we will investigate how cognitive, hormonal, and neuronal mechanisms act together in flexibly balancing contrasting behavioural

decisions.

Tasks The PhD student will be responsible for conducting experiments with our model species, the poison frog *Allobates femoralis*, in the field and in the lab, management and analysis of the data, and publication of results. Candidates are expected to actively participate in our weekly lab meetings and attend 1-2 scientific conferences per year. The specific focus of the PhD thesis will be negotiated depending on the candidate's interests and/or skills. The candidate must be willing and capable to spend up to 2 months each year in a tropical research station under very simple living conditions.

Requirements Candidates must be highly motivated, creative, and able to work independently and collaboratively. We welcome applications from diverse scientific backgrounds (e.g. ecology, behaviour, cognition, endocrinology, neurobiology, evolutionary biology). In their motivation letter, applicants should mention their previous experience in working in tropical environments, (poison) frogs, endocrinology, neurobiology, molecular biology, spatial ecology, animal cognition, and/or bioacoustics. Candidates must have good written and spoken communication skills in English, which is the working language of our institute. A Master degree in a related field is required. We are committed to increasing diversity, equity and inclusiveness in ecology and evolution and especially encourage applications from underrepresented groups.

Work environment The Division of Behavioural Ecology is a dynamic, highly international, and interdisciplinary research team. We study the evolutionary mechanisms that shape animal behaviour in ecologically relevant contexts. Specific research topics include parental decision-making, cooperative breeding, animal communication, cognition, animal personality, and life history strategies. As supporters of the Better Science Initiative (<https://betterscience.ch/en/>), our lab philosophy includes open and compassionate communication, regular individual meetings and evaluation of mentoring and career development needs, and prioritization of the well-being of all lab members. Our group is part of the Institute of Ecology and Evolution (IEE) at the University of Bern (<https://www.iee.unibe.ch/>). Beside diverse seminars and lectures at the University of Bern, PhD students have access to additional courses via the Swiss CUSO doctoral programme in Ecology and Evolution (<https://biologie.cuso.ch/ecology-evolution>). Through these structures, PhD students have ample opportunities for interactions and collaborations across research fields with a vibrant international community of graduate students, post-doctoral researchers, and professors. The University of Bern is situated near the heart of the beautiful old city, and the quality of life in Bern is very

high, with the Swiss alps in close vicinity. The Division of Behavioural Ecology is based at the Ethological Research Station Hasli, which is located slightly outside the city of Bern within the beautiful Bremgarten forest.

Salary: rate of the Swiss National Science Fund (SNSF) for PhD students: 30 hours/week, CHF 47,390.- gross annual salary.

Interested? Please apply with the following documents:
 * Letter of motivation * CV * Master certificate or transcripts * Names of two contact persons (no recommendation letters will be needed at this stage) * One example of scientific writing (MSc thesis, seminar article, journal article)

Please send your application as a single PDF named "application_firstname.lastname" until 10th September 2023 to

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UCalifornia SanDiego InsectEcoEvoDevo

Graduate student position at UCSD in Insect Eco-Evo-Devo

Up to two PhD positions starting in Fall 2024 are available in the newly established lab of Dr. Patrick Rohner in the Department of Ecology, Behavior, and Evolution (EBE) at the University of California San Diego (UCSD).

We are looking for highly motivated PhD students to conduct integrative research in organismal biology. Our group integrates concepts and approaches from evolutionary developmental biology (evo-devo), evolutionary ecology, and quantitative genetics to address fundamental questions surrounding the role of developmental plasticity in ecology and evolution. Focusing on dung beetles and black scavenger flies (or, occasionally, other invertebrates), we are especially interested in how plasticity, developmental bias, and host-symbiont interactions shape phenotypes and their evolution. To this end, we integrate a variety of methods, including transcriptomics, functional genetics, geometric morphometrics, as well as quantitative genetics and comparative

phylogenetic approaches. For more information, see the lab website at <https://rohnerlab.biosci.ucsd.edu/>. PhD students will be recruited through the Biological Sciences PhD Program of UCSD. The Biological Sciences PhD Program provides world-class doctoral research training in biological sciences, equipping a diverse group of trainees for a variety of scientific careers. Students can be admitted either through the general or the EBE subprograms (see <https://biology.ucsd.edu/education/grad/phd/index.html>). Interested candidates are strongly encouraged to contact Dr. Rohner as soon as possible before applying to either program. Please include i) a CV, ii) contact information for two referees who can provide reference letters upon request, and iii) a brief motivation letter describing your background and motivation to apply for the position.

I am looking forward to hearing from you,

Patrick Rohner (he/him) Assistant Professor University of California San Diego Department of Ecology, Behavior, and Evolution Bonner Hall 3430 9500 Gilman Dr., La Jolla, CA 92093

<https://rohnerlab.biosci.ucsd.edu/> prohner@ucsd.edu

“Rohner, Patrick” <prohner@UCSD.EDU>

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U Dayton AmphibianEvoDevo

The newly established Paluh Lab (paluhlab.com) in the Department of Biology at the University of Dayton is recruiting a fully-funded graduate student (MSc or PhD) with a start date of either Spring 2024 (January) or Fall 2024 (August).

The Paluh Lab studies the ecology, evolution, and development of amphibian traits using phylogenetic comparative methods, anatomical imaging (microCT, histology, microscopy), and evo-devo approaches to link patterns of diversity with underlying mechanisms. Current projects in the lab are focused on amphibian teeth, tadpole mouthparts, and other feeding structures (odontoid fangs, taste buds, etc.). Graduate students are encouraged to develop independent projects that align with the research themes in the lab.

The University of Dayton is a thriving institution, located in the city, and has a low cost of living. There are several local metroparks and state parks in the area.

The position is fully-funded through a teaching assistantship. The salary is set at ~\$21,000/year for PhD students and ~\$18,000/year for MSc students. There are also competitive fellowships through the university that can increase the stipend, provide summer support, and sponsor research and conference travel.

All interested applicants are encouraged to email Dr. Paluh (daniel.j.paluh@gmail.com) with a statement that includes previous research experience, current interests, and motivation for joining a graduate program. Please also attached a CV.

The Paluh Lab and the Department of Biology at UD is committed to creating a safe, inclusive, and supportive working environment for all members.

Daniel J. Paluh (he/him)

Assistant Professor

Department of Biology

University of Dayton

paluhlab.com

Daniel Paluh <daniel.j.paluh@gmail.com>

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UGoettingen MolluscEvoDevo

PHD POSITION IN MOLLUSCAN SHELL EVO-DEVO

The Department of Geobiology at the Geoscience Center of the Georg-August-Universität Göttingen seeks to fill the position of a PhD Student (all genders welcome) - Entgeltgruppe 13 TV-L -

The position is full-time (suitable for part-time work) and limited until 30.09.2026.

Molluscan shell morphologies have been admired and studied by mathematicians, physicists and biologists for centuries. However, the cellular and molecular mechanisms that generate a coiled shell remain unknown. The recent discovery of a spectacular and robust open coil “banana” phenotype generated in response to the endocrine disruptor ‘dutasteride’ presents an ideal opportunity to explore these mechanisms in the model mollusc *Lymnaea stagnalis*. Using a transcriptomics approach, coupled with in situ visualization of spatial gene expression patterns, the PhD candidate will iden-

tify and characterize the major genetic components of the shell-coiling program in *L. stagnalis*. In addition, although *L. stagnalis* is a formally recognised OECD bio-sentinel species, its full potential to detect endocrine-active chemicals in the environment is hampered by a lack of knowledge regarding their modes of action in molluscs. Therefore, this project will also significantly contribute to the environmental monitoring of European and holarctic waterways.

This position requires an individual with strong molecular biology skills and familiarity with the analysis of large computational datasets such as transcriptomes and whole genomes. Standard molecular lab skills such as RNA/DNA isolation, PCR, cloning and Sanger sequence analysis are required. A familiarity with bioinformatic analyses (for example the ability to write Perl, Python, R and shell scripts, to install and use command line programs and use high performance computing clusters for analyses) is highly desirable. Familiarity with maintaining (and repairing) semi-automated aquarium systems and working with aquatic animals would be advantageous. Candidates should hold a Masters in evolution, cell biology, developmental biology, molecular biology, or a related field. In addition to their academic qualifications, candidates should have excellent communication, record keeping, organisational and team-working skills, be committed to the topic and to working in a dedicated, interdisciplinary research environment. The working language of the group is English, and applicants from abroad are encouraged to apply. For international applicants a desire to learn German should be demonstrated.

All applications should be made in English, and must include the following 3 items (incomplete applications will not be considered):

1. A full academic CV including any published or unpublished academic work.
2. A 1-2 page letter outlining the candidate's research interests and motivation for applying to this position.
3. Letters of reference and the contact details of 1-2 referees (ideally previous supervisors).

The University of Göttingen aims to increase the proportion of women in areas in which they are underrepresented and therefore urges qualified women to apply. It sees itself as a family-friendly university and promotes the compatibility of research/teaching and family. The university has set itself the goal of employing more severely disabled people. Applications from severely disabled people with the same qualifications are given preference.

Applications with the usual documents are to be submitted in electronic form (a single PDF) by 31.08.2023

to the online application platform of the Georg-August University of Göttingen:

<http://obp.uni-goettingen.de/de-de/OBF/Index/-74168> If you have any questions, please do not hesitate to contact Prof. Dr. Daniel Jackson (djackso[at]uni-goettingen.de)

Please note: The submission of the application constitutes consent under data protection law to the processing of your application data by us. You can find more information on the legal basis and use of data in the: Information sheet on the General Data Protection Regulation (GDPR) <https://www.uni-goettingen.de/-hinweisdsvo> "Jackson, Daniel" <djackso@gwdg.de>

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UIceland LichenBiology

Dear colleagues,

We have an open PhD student position at the Faculty of Pharmaceutical Sciences, University of Iceland. The project is "Usnic acid stereoselective biosynthesis in the lichen-forming fungal genus *Cladonia*". It is fully funded for three years with possible extension as teaching assistant.

The project is based on the phylogenetic pattern of phytochemical distribution. It integrates analytical chemistry, molecular biology and bioinformatics to investigate the biosynthesis of usnic acid stereoisomers in the lichen-forming fungal genus *Cladonia*. Usnic acid is a potent antimicrobial compound, having two enantiomers, i.e. (+)- and (-)-usnic acid, with different bioactivity on certain bioassays. Isousnic acid, also with two enantiomers, is also present in lichens. Stereoisomeric composition will be determined by chiral supercritical fluid chromatography, and lichen metabolite profiles will be assessed using ultra-high performance liquid chromatography coupled to mass spectrometry. Distribution of stereoisomers will be analysed in a phylogenetic context. Biosynthetic genes will be annotated from sequenced *Cladonia* genomes, and phylogenomic analyses will be performed to assess the evolution of functional genes. The stereoselective enzymes will be subjected to heterologous expression and further enzymatic characterization.

We are seeking for an enthusiastic candidate with strong molecular biology or bioinformatics background. Background in analytical chemistry is not essential, but we

hope the candidate with a biology background is willing to acquire new skills. Experience in fungal genomics and/or heterologous expression is highly appreciated.

We will provide both theoretical teaching and practical training to the PhD student, including:

- chromatography and mass spectrometry training in University of Iceland
- bioinformatics training in our collaborator's lab in University of Padova, Italy (Dr. Garima Singh)
- heterologous expression training in our collaborator's lab in University of Manitoba, Canada (Prof. John Sorensen)
- other external courses may be funded upon agreement with supervisors

The monthly salary is ca. 2900 euros before tax/ca. 1900 euros after tax for three years. The project will start in November 2023. Interviews will be planned in late September and early October 2023.

Please include the following data with the application:

A description of how the applicant meets the above criteria, why he is interested in the project, how he believes he can contribute to the project and what expectations he has for the doctoral program (maximum 1 page) Resume. Certified copies of diplomas from undergraduate and master's studies, together with grades. Information about two recommenders (name, workplace, email address) together with information about their relationship with the applicant. Applicants are also invited to submit a PDF version of their master's thesis (in English), as well as other relevant publications (maximum 5 documents).

Anyone interested in this position please contact Dr. Maonian Xu by email maonian@hi.is. An official application link will be available shortly.

Thanks for your attention!

Maonian Xu - HI <maonian@hi.is>

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UKansas PlantTelomereEvolution

PhD student position in plant telomere genomics is available in the Choi lab (<https://jyoungchoi.wordpress.com/>) at the University of Kansas. The lab is a member of the Department of Ecology and Evolutionary Biology.

This project will investigate the biological cause and consequence of the telomeric variation in plants. Telomeres maintain chromosome ends from damage and are under functional constraint as aberrations can have dire consequences. Paradoxically, telomere lengths vary naturally between individuals but what drives this variability is poorly understood. In our recent research we've discovered variation in telomere length is driven by adaptive evolution to specific life history or ecological conditions. The trainee will integrate research that will dissect the genetic basis of telomere regulation and state-of-the-art functional genomic technique with evolutionary theory to understand telomere length variation in plants.

Applicants can come from a variety of backgrounds, but we are particularly interested in those with a strong interest in genetics & genomics, evolution, and plant biology. Experience in analysis of genomic data and solid understanding of statistics is preferred but not necessary. Computational analysis can be taught and the student will be fully expected to conduct genomic analysis independently in time. While prior plant experience is not necessary preference will be given to candidates with plant molecular biology or genetics background. This is a project that will involve plant genetics, especially CRISPR-Cas9 based genetic manipulations, hence a strong interest in plant biology is necessary. A strong interest in evolutionary genetics is also necessary.

The doctoral degree and coursework will be based in the Department of Ecology and Evolutionary Biology (<https://eeb.ku.edu/graduate-programs>) at the University of Kansas (Lawrence, KS). Financial support will be provided through research and teaching assistantships at KU.

To be considered please send an email to Jae Young Choi (jaeyoung.choi@ku.edu) that includes the following attachments: 1) a cover letter expressing your interest, your qualifications for the position, and your future career goals, 2) your curriculum vitae, 3) an unofficial copy of your college transcripts, and 4) names and contact information of 2-3 professional references.

Applications will be reviewed when submitted but candidates are encouraged to apply by Sept. 30, 2023. The position will remain open until filled. Please note that the selected candidate will need to apply and be accepted to the EEB Graduate Program at KU (<https://eeb.ku.edu/how-apply>) for a start date of Fall 2024.

Please email Jae Young Choi (jaeyoung.choi@ku.edu) with any questions or concerns about this position.

Jae Young Choi, PhD Assistant Professor of Evolutionary Genomics Department of Ecology and Evolutionary Biology Office: Haworth Hall 7008 University of Kansas, Lawrence, KS <https://jyoungchoi.wordpress.com/> “Choi, Jae Young” <jaeyoung.choi@ku.edu>

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UMainz Germany AntSlaveryEvolution

Doctoral Researcher Position (PhD): Consequences of genomic changes during the evolution of ant slavery Join our international team as a graduate student to investigate the consequences genomic changes during the evolution of dulotic social parasitism. Follow up on the recent discovery that slavemaking ants have convergently lost odorant receptors and investigate the ability of these ants to perceive odors. What are the consequences of these changes for their behavior and processing of odorant information in the brain? This innovative project combines behavioral and neurobiological experiments as well as gene expression and bioinformatics analyses. Our aim is to reveal whether hosts can perceive more odors than slavemaking ants, by performing odor perception screens using antennal electrophysiology. We will examine antennal transcriptomes to uncover shifts in the expression of odorant receptor genes. Our goal is also to study brain anatomy to determine whether the loss of odorant receptor genes has led to a reduction in glomeruli in the antennal lobes. Finally, slavemaker specific candidate genes will be identified and functionally characterized through the use of RNAi and behavioral screens. Work in an international team with neurobiologist Carlotta Martelli, evolutionary biologist Jiri Heinze and Barbara Feldmeyer, and bioinformatician Erich Bornberg-Bauer, and direct supervisor Susanne Foitzik. Funding is secured over 3 years, and the position could potentially be extended. You will be integrated into the GenEvo

graduate program (<https://www.genevo-rtg.de/>), which provides a close-knit community of graduate students and molecular and evolutionary biology training and methodological courses such as on bioinformatics.

Applications are open until October 1, 2023. To apply, please send a letter of motivation, CV with publication list, and contact information for two reviewers to Susanne Foitzik at foitzik@uni-mainz.de.

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hirsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

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

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UMuenster HostParasite EcoEvo

Graduate Position: [UMuenster.HostParasite.EcoEvo](https://www.uni-muenster.de/Evolution/animalevolecol/)

Doctoral Student (Ph.D position) in Evolutionary Ecology - University of Muesnter (Germany)

Start of employment: Negotiable (ideally November 2023)

We offer one fully funded, 3-year PhD position in the Animal Evolutionary Ecology group at the Institute for Evolution and Biodiversity (<https://www.uni-muenster.de/Evolution/animalevolecol/>) lead by Prof. Joachim Kurtz.

The position is (65% salary level TV-L E 13) is a externally funded project SFB/TRR 212. The position is part of the Collaborative Research Centre (SFB/TRR 212) entitled: A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Choice, Niche Conformance, Niche Construction (NC3), as granted by the German Research Foundation (DFG).

Topic: This PhD project deals with the ecological and evolutionary effects of parasite virulence. In this project, you will investigate the ecological and evolutionary effects of a trophically transmitted parasite (*Schistocephalus solidus*) that manipulates the behaviour of infected three-spined stickleback fish.

The project aims to show how these effects cascade from the individual to the ecosystem level and alter eco-evolutionary dynamics. The successful candidate

will be involved in mesocosm experiments to investigate how parasite virulence affects individual trophic specialisation of the hosts using stable isotope analyses.

We aim to identify the physiological and metabolic traits associated with these individual differences. The successful candidate will further take advantage of transcriptomic datasets and stable isotope data sets to identify the immuno-physiological traits associated with host niche individualisation, and contribute to the development of computational models that will bridge the gap between individual, population, and community processes.

Our expectations: Applicants should be highly motivated scientists of any nationality, who are interested in interdisciplinary work. You should have the equivalent of a master degree in biology, preferentially with a focus on evolution and ecology, or related fields. A background, and ideally some experience, in any of the following areas will be useful: limnology, molecular skills, individual-based models, as well as a good understanding of statistics.

Applicants should have excellent communication skills and be able to work both independently and as part of a multidisciplinary team. The working language of the Institute and the lab is English, and good proficiency in spoken and written English is a requirement.

Advantages for you:

The University of Münster is a large vibrant university hosting a number of excellent scientific institutions (<http://www.uni-muenster.de/en/>). The Institute for Evolution and Biodiversity provides a stimulating research environment with a number of scientific groups researching diverse topics centred on different aspects of evolution.

The successful candidate will join the team of Professor Joachim Kurtz, focussing on host-parasite coevolution and ecological immunology. As a part of the Collaborative Research Centre SFB/TRR 212 (https://www.uni-bielefeld.de/fakultaeten/biologie/-forschung/verbuende/sfb_nc3/), the project will involve intensive collaboration with consortium partners at the Universities of Münster and Bielefeld. The town of Münster itself has many students and presents a dynamic environment with many cultural and social events throughout the year (<http://www.muenster.de/en/>).

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the

legal possibilities. The University of Münster is committed to employing more staff with disabilities. Candidates with recognised severe disabilities who have equivalent qualifications are given preference in hiring decisions.

Are you interested? Then we look forward to receiving your application, written in English, in one single pdf file by 5 September 2023 at Dr. Jaime Anaya-Rojas (jaime.anaya-rojas@uni-muenster.de). Please note that we cannot consider other file formats. Applications should include 1) a cover letter with a statement of research interests and motivation (max. 1 page), 2) a CV including details about university degrees, research experience and publications, and 3) contact details of at least two referees.

Dr. Jaime M. Anaya-Rojas

University of Muenster Institute for Evolution and Biodiversity Animal Evolutionary Ecology Group

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UNorthernBritishColumbia BullTroutGenomics

MSc position at UNBC on Bull Trout Genetics

The conservation of genetic diversity is a fundamental goal of fisheries conservation efforts. To ensure effective conservation of genetic diversity in populations of Bull Trout (*Salvelinus confluentus*) in the Williston Reservoir watershed, an understanding is needed of existing population structure and gene flow.

This graduate student position supports a genetic study of population structure and gene flow within large-bodied, migratory Bull Trout, to be led by a partnership between the University of Northern British Columbia and Tsay Keh Dene Nation-owned Chu Cho Environmental. The BC Ministry of Forests, Fisheries Section, and BC Ministry of Water, Land, and Resource Stewardship, Ecosystems Section are additional study collaborators.

The project partners are seeking a creative, inspired MSc student to assist with field work and conduct genomic analysis on samples from populations of Bull Trout in the Williston Reservoir watershed, identify population

structure, and evaluate potential hypotheses about factors affecting population structure and gene flow. The prospective student, who will join the UNBC genetics lab of Dr. Brent Murray, should have strong interests in conservation and ecology in addition to an interest in advanced laboratory methods. The position has student support of 30,000 CDN/year for two years.

Study outcomes will have a direct impact on abundance monitoring and management decisions for Bull Trout in the upper Peace River Basin.

Interested candidates should send a cover letter, CV, and contact details of two references to Brent Murray (brent.murray@unbc.ca). Start date can be September 2023 or January 2024. Applications for other start dates will be considered.

Brent W Murray Professor, Biology Department of Ecosystem Science and Management University of Northern British Columbia 3333 University Way Prince George, BC, Canada, V2N 4Z9

Brent.Murray@unbc.ca

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UOslo Systematic Mycology

PhD UOslo: Systematic Mycology

<https://www.jobbnorge.no/en/available-jobs/job/-248954/phd-research-fellow-in-systematic-mycology>

Job description At the Natural History Museum (NHM), University of Oslo (UiO), we have a vacancy for a four-year PhD research Fellow in Systematic Mycology. The position includes one year of duty work (distributed over the employment period) that includes various meriting activities (e.g., teaching, specimen curation, outreach activities, and student supervision). Starting date: January 1st 2024, or as soon as possible thereafter.

More about the position This PhD opportunity allows you to engage in a self-developed and innovative systematics research project on fungi, or plants in combination with fungi. The successful candidate for this position will work in close collaboration with staff members of the ISOP research group, primarily with Mika Bendiksby and Charlotte Bjørn. In our research, we focus on the discovery, understanding, protection, and utility of fungal and plant diversity. We often use a phylogenetic

approach on genomic data to study a range of biological aspects in fungi and plants, and fungarium- and herbarium specimens are important data sources and depositories in our research. An ideal project will effectively utilize NHMs fungal and/or plant collections, include fieldwork for collecting new materials, and align with our research profiles and ongoing activities. The ISOP group has a strong record for field-based research in the Arctic, Nordic countries, east- and southern Africa, and Indonesia. It is desirable that the proposed PhD project aligns well also with at least one of the research themes at our museum-wide research hub STADIS. The hub focuses on stability and discontinuity within and between different biological system levels, such as genomes, phenotypes, species, communities, and ecosystems. For almost 200 years, specimens of fungi and plants have been collected, studied and preserved at NHM. The improvement, maintenance and use of scientific collections is central to our work. The herbarium and fungarium comprise over 1.2 million plants and 600,000 fungal specimens, of which the majority are Nordic. The museum provides excellent research facilities in-house, including various molecular- and microscopy laboratories. NHM has ten research groups that pursue research and education within basic and advanced biosystematics and biodiversity as well as geological studies.

Qualification requirements The candidate must have:

- * A degree equivalent to a Norwegian master's (MSc) in biology. Other relevant backgrounds might be considered upon individual evaluation. For candidates not having finished their master's degree, the thesis must have been submitted for evaluation by the closing date of the call. It is a condition of employment that the master's degree has been awarded with at least an equivalent to grade B in the ECTS grading scale.
- * The ability to work independently and in a structured manner
- * The ability to cooperate with others
- * Excellent communication skills (including written and spoken English)

It is preferable that the candidate has (and can document) one or more of the following competences:

- * A degree equivalent to a Norwegian master's (MSc) in systematic mycology/botany
- * Knowledge and research experience with DNA-based techniques applied in biosystematics and biodiversity studies
- * Experience in relevant analytical/statistical methods and bioinformatics tools (e.g., phylogenetics, R)
- * Data management skills following best reproducible open science practices
- * Experience with microscopy
- * Ability to do field work in remote and potentially challenging environments
- * Hold a driver's license
- * Experience with scientific publication and outreach
- * Experience in collection-based research (using physical and/or digital specimen data)

* Strong team- and networking skills

Personal skills We are looking for a highly motivated, creative, and structured candidate with excellent collaborative qualities. Research experience, ambitions, and potential will also count when evaluating the candidates.

We offer

* a dynamic, friendly and professionally stimulating working environment * salary NOK 532 200 - 575 400 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017) * membership in the Norwegian Public Service Pension Fund * attractive welfare benefits

How to apply The application must include the following six elements as separate documents:

* A one-page (maximum) application/cover letter with a brief account of your motivation for applying for the position

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UQuebec Rimouski MolecularAdaptation

Graduate position: Master degree project in Molecular and evolutionary biology

We are seeking a highly motivated and passionate graduate student in biology interested in studying the molecular bases of adaptation. The project details are open for discussion but would be framed around genomic instability using yeast as a model. Preferred candidates would have experience in molecular biology, microbiology, and/or bioinformatics. The successful candidate will be supervised by Dr Souhir Marsit and will be based at Département de Biologie, Chimie et Géographie, Université du Québec À Rimouski (UQAR), Rimouski, Canada. <https://www.uqar.ca/etudes/etudier-a-l-uqar/programmes-d-etudes/3440> *Requirements:*

-BSc in biology.

-Experiences and skills in microbiology, molecular biology and/or bioinformatics would be appreciated.

Starting date: September- December 2023

Duration: 2 years.

Interested applicants should submit, in a single PDF file, a CV, a copy of their academic transcript, a cover letter outlining their research interests and the contact information of three people who can be contacted for reference to souhir.marsit@gmail.com.

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Projet de Master en Biologie Moléculaire et Évolutive

Nous recherchons une étudiante ou un étudiant très motivé(e) et intéressé(e) par l'étude des bases moléculaires de l'adaptation. Les détails du projet sont à préciser et à discuter avec le candidat mais le projet porterait globalement sur l'instabilité génomique en utilisant la levure comme modèle.

Les candidats ayant une expérience en biologie moléculaire, en microbiologie et/ou en bio-informatique seraient appréciés. Le candidat retenu sera supervisé par le Dr Souhir Marsit et sera basé au Département de Biologie, Chimie et Géographie, Université du Québec À Rimouski (UQAR), Rimouski, Canada. <https://www.uqar.ca/etudes/etudier-a-l-uqar/programmes-d-etudes/3440> *Exigences:*

-Baccalauréat (licence) en biologie.

-Expériences en microbiologie, biologie moléculaire et/ou bio-informatique seraient appréciées.

Date de début : septembre-décembre 2023

Durée : 2 ans.

Les candidats intéressés peuvent soumettre leur dossier (un seul fichier PDF) composé d'un CV, une copie de leurs relevés de notes, une lettre de motivation décrivant leurs intérêts de recherche et les contacts de 3 référents à souhir.marsit@gmail.com.

[souhir marsit <souhir.marsit@gmail.com>](mailto:souhir.marsit@gmail.com)

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UQueenslandAustralia EcoEvoDynamics

PhD positions in eco-evolutionary dynamics.

University of Queensland, Brisbane, Australia, in collaboration with the University of British Columbia, the University of Arkansas, the National Institute of Genetics (Japan) and MIT.

We have multiple fully-funded (salary and research funds) PhD positions to explore how rapid evolution affects the dynamics of plants and animals in an era of global environmental change.

Successful applicants will be advised by an international team of ecologists and evolutionary biologists including Dr Simon Hart (University of Queensland), Dr Masato Yamamichi (National Institute of Genetics, Japan), Assoc. Prof Serguei Saavedra (MIT), Assist. Prof Rachel Germain (University of British Columbia), and Prof. Adam Siepielski (University of Arkansas).

We are looking for curious and creative students who have a strong quantitative focus and a desire to work in a supportive and engaging team environment. We are particularly interested in candidates with one or more of the following attributes, each of which is desirable but not necessarily essential: a) a background in ecology and/or evolutionary biology, b) strong statistical, mathematical and/or computational skills, c) experience with laboratory and field experimental/sampling designs, d) practical experience with molecular genetics, e) experience working in freshwater ecosystems, f) strong written and verbal communication skills.

More details about the opportunity can be found here: https://drive.google.com/file/d/17nIF_H1589O1Ne97IBD2pwII7auu3Vca/view?usp=sharing To apply, please submit a cover letter detailing your experience and research interests, with particular reference to the desirable attributes, as well as your CV, university academic transcripts, and names and contact details of three references to Simon Hart at s.hart@uq.edu.au. Applications will be accepted and considered immediately, and will continue to be accepted and considered until the positions are filled. The PhD projects will commence as soon as possible, and ideally no later than half-way through 2024.

Please contact Dr Simon Hart if you are at all interested: s.hart@uq.edu.au. I don't bite, and I am very happy to talk with you if you would like more information about the opportunity, and your eligibility or suitability for the role.

s.hart@uq.edu.au

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UQueensland LifeHistoryEvolutionEcology

Title: UniQueensland.LifeHistoryEvolutionEcology

A 3.5 year PhD scholarship in Evolutionary Ecology is available in Brisbane, Australia.

We are seeking a highly motivated student to investigate the evolution of male semelparity in animals.

A handful of animals (some arthropods and Australian marsupials) have iteroparous females- that reproduce repeatedly, but semelparous males- that inevitably die during or soon after mating. This ARC-funded project will use multi-species comparative approaches, behavioural ecology / population ecology methods, and quantitative modelling to test evolutionary explanations.

We expect the candidate to be able to use quantitative modelling to address questions in evolutionary biology, phylogenetic comparative methods, and data analysis in R.

The candidate will demonstrate academic achievement in the field(s) of evolutionary ecology, quantitative behavioural ecology, or evolutionary biology at the species level. A background or knowledge of arthropod diversity and sexual selection would be helpful.

The candidate will be supervised by Assoc. Prof. Diana Fisher (U Qld, Australia) and Prof. Roberto Salguero-Gomez (U Oxford, UK), in collaboration with Prof. Hanna Kokko (U Maintz, Germany)

Please Apply here: <https://study.uq.edu.au/study-options/phd-mphil-professional-doctorate/projects/-evolution-semelparity-male-animals> Contact: Assoc. Prof. Diana Fisher d.fisher@uq.edu.au

Dr Diana Fisher | Associate Professor | Goddard Building room 329 | School of Environment University of Queensland | St Lucia 4072 Qld, Australia

d.fisher@uq.edu.au

<http://researchers.uq.edu.au/researcher/397> | 0000-0002-4017-3710 Diana_uqmammals | [@DianaF1080](https://twitter.com/DianaF1080) | [@OzMMSSG](https://www.instagram.com/OzMMSSG)

Co-chair IUCN Marsupial & Monotreme Species Specialist Group

Deputy Academic Director UQ Hidden Vale Research

Centre

Senior Editor Cambridge Prisms Extinction

Diana Fisher <d.fisher@uq.edu.au>

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ing@mcmaster.ca)

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 may require novel analytical methods, which you will be supported to develop.

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-](https://www.utas.edu.au/research/degrees/available-projects/projects/medical-research/the-evolution-of-multiple-sclerosis-risk2)

[projects/projects/medical-research/the-evolution-of-multiple-sclerosis-risk2](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 me, the primary supervisor (bennet.mccomish@utas.edu.au). I am taking expressions of interest until 31 August, and will shortlist and contact applicants shortly thereafter so that I have time to support you to develop a strong scholarship application.

Kind regards, Bennet

Dr Bennet McComish Research Fellow | Complex Genetics Group Menzies Institute for Medical Research | University of Tasmania Private Bag 23, Hobart TAS 7000 +61 3 6226 4285 | bennet.mccomish@utas.edu.au

I acknowledge and pay respect to the Tasmanian Aboriginal community as the traditional and original owners and continuing custodians of the land on which I work.

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

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ing@mcmaster.ca)

UTexas Arlington EvolutionaryGenomics

*PHD POSITIONS AVAILABLE TO WORK ON MULTIPLE PROJECTS IN GENOMICS IN THE CASTOE LABORATORY AT U TEXAS ARLINGTON - www.castoelaboratory.org . The Castoe lab (www.castoelaboratory.org) is looking to recruit multiple PhD students to work on projects in the fields of Functional Genomics, Evolutionary Genomics, and Population Genomics. Work in the lab includes a mixture of molecular genetic and computational approaches, and students with interests in either or both fields are encouraged to apply.

PhD students are FULLY-SUPPORTED for 12 months per year (including health insurance) for 5 years, through a mixture of Graduate Teaching and Graduate Research fellowships. UTA accepts PhD students TWICE A YEAR, once in January and once in August, and we

are accepting applications for PhD students NOW to start the program as early as January 2024.

PhD students will have flexibility to choose which projects they work on, related to the following questions:

1) HOW DO NEW GENE REGULATORY NETWORKS ARISE, HOW ARE EXISTING REGULATORY NETWORKS RE-WIRED TO ACCOMPLISH NOVEL FUNCTIONS, AND HOW DOES THIS MANIFEST AT CELLULAR LEVELS - USING SNAKE VENOM AS A MODEL. This project integrates population genomics, cutting-edge functional genomics datasets, and single-cell data to identify what genomic sequences and mechanisms regulate the expression of snake venoms, to understand where how they arose (evolutionarily), and how they are modified subsequently by evolution to produce extensive variation in snake venom across populations and species. Portions of this work will use evolutionary variation and machine learning approaches to test predictions about gene regulatory hypotheses applicable to any system.

2) AS THE SPECIATION PROCESS PROGRESSES, HOW DO DIVERSE EVOLUTIONARY PROCESS SYNERGISTICALLY AND ANTAGONISTICALLY INTERACT, AND DO THE ROLES OF THESE PROCESSES CHANGE - THROUGH THE LENS OF RATTLESNAKE HYBRID ZONES. This project links evolutionary processes with genomic patterns and phenotypic/physiological data to understand the speciation process, through comparative analysis of multiple rattlesnake hybrid zones. Hybrid zones are valuable models for understanding how reproductive isolation evolves through complex interactions of evolutionary processes operating across multiple biological scales, and deciphering these interactions holds great value for understanding the process of speciation and the complexity of genome-trait-environment-fitness relationships. This highly collaborative project involves the development of new approaches to understand and predict genome-wide processes underlying the speciation process applicable to any system.

3) POPULATION GENOMIC APPROACHES TO UNDERSTAND WHY STRONG CONTROL MEASURES DON'T EFFECTIVELY ERADICATE SCHISTOSOME PARASITES THAT CAUSE SCHISTOSOMIASIS. This is an exciting project to use genomics (sequencing of thousands of parasite genomes) to track precise details of transmission in regions that struggle to eradicate schistosomiasis, to figure out why that might be the case (where new infections come from), and to infer the potential impact of control measures in driving selection in parasite genomes, and its potential impacts.

At UTA, PhD students will join a vibrant and productive Biology Department, and an active group in Genome Biology, including multiple other labs in related fields of Evolutionary Biology, Molecular Genetics, and Genomics: <https://www.uta.edu/academics/schools-colleges/science/departments/biology/faculty>

If interested, please send your CV along with a brief informal statement about why you are interested in joining the lab to todd.castoe@uta.edu. Application deadlines are flexible so if interested, I suggest contacting me as early as possible.

Todd Castoe Professor of Biology University of Texas Arlington Arlington, TX, USA 75104 todd.castoe@uta.edu

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VrijeU Brussel EvolutionFrogSexChromosomes

6-year (Dutch-speaking) PhD research/teaching fellowship is available at Vrije Universiteit Brussel (Brussels, Belgium) in evolution of frog sex chromosomes

We are seeking a PhD research/teaching position, funded by Vrije Universiteit Brussel and ERC Starting Grant, to join the Evolutionary Genomics of Sex lab (<https://www.wmalab.com>) in the Biology Department (<https://we.vub.ac.be/en/biology-department>) at the Vrije Universiteit Brussel. As the teaching is involved in bachelor Biology courses, so fluent Dutch speaking is required for this position.

Job vacancy link: <https://jobs.vub.be/job/Elsene-Doctoraatsbeurs-Biologie/942310701/> Research topics in the Ma lab: We are interested in how sex chromosomes evolve, and why the evolutionary trajectories of sex chromosomes differ dramatically across eukaryotes. For example, sex determination is very labile in reptiles, amphibians and fishes but highly stable in mammals and most birds. We study the drivers of sex chromosome recombination suppression, the genomic signature, and the evolution and genomic basis of sex determination and endosymbionts manipulation of host reproduction. We integrate comparative and functional genomics, transcriptomics, molecular genetics, artificial selection, and fieldwork sampling to reveal the genomic signature and genetic architecture of sex.

The PhD topics are covered:

Evolution of sex differences Evolutionary forces driving frogs to keep changing their sex chromosomes, in contrast to stability in mammals and birds How does frogs sex chromosome diversity originate and evolve?

You will gain experience in:

Field sampling (Europe and Central America) Phylogenetics/phylogenomics Genetic linkage mapping State of the art OMIC approaches (DNA sequencing, RNA sequencing RAD sequencing)

The ideal candidate:

Has background in evolutionary biology Is highly motivated by evolutionary questions Is eager/passionate to learn (new) genetic/genomics techniques/analysis Has great communication skills and is a team player Shows initiative to drive the project

Application files: 1) a cover letter expressing your interest, your qualifications for the position, and your future career goals, 2) your CV, 3) a copy of your master degree diploma and master transcripts, 4) names and contact information of 2-3 professional references.

Application deadline: 31 August 2023

Please apply for this position via the VUB link:

<https://jobs.vub.be/job/Elsene-Doctoraatsbeurs-Biologie/942310701/> Informal scientific enquiries can be emailed to Wen-Juan Ma (wen-juan.ma@vub.be).

Dr. Wen-Juan Ma

Assistant Professor

Vrije Universiteit Brussel Room 5F.60

Pleinlaan 2 1050 Brussels Belgium

Office: 0032 (0)2 629 3416 Lab webpage: <http://www.wmalab.com> Twitter: @WenJuanMa84

Wen-Juan Ma <Wen-Juan.Ma@vub.be>

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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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BrownU EvolutionaryEcol

“Applications are encouraged from individuals working in any area of the field of ecology who can imagine leading an exciting research, teaching, and service program as a member of our faculty, INCLUDING THOSE WITH AN EMPHASIS ON EVOLUTIONARY QUESTIONS.”

David M. Rand

Dear Evoldir,

The department of Ecology, Evolution and Organismal Biology (EEOB) at Brown University seeks to fill a tenure-track position in ecology at the rank of Assistant Professor. Applications are encouraged from individuals working in any area of the field of ecology who can imagine leading an exciting research, teaching, and service program as a member of our faculty. The successful candidate must hold a PhD or equivalent degree prior to July 1, 2024 and have demonstrated research ability through scholarly publication in peer-reviewed journals. Candidates will be evaluated based on their

ability to develop a national reputation for excellence in research scholarship and their potential effectiveness as a teacher. The successful candidate will hold a ten-month appointment in EEOB, and will develop an externally-funded research program and teach undergraduate and graduate students in the biology curriculum at Brown University. Brown University maintains world-class resources that will be available to the successful candidate, including animal-care facilities, the Brown University Herbarium, the OSCAR supercomputing cluster, university libraries, and the Plant Environment Center. We welcome applicants whose work complements existing strengths in EEOB and other units on campus, including but not limited to the Center for Computational and Molecular Biology (<https://ccmb.brown.edu/>), Data Science Initiative (<https://dsi.brown.edu/>), Department of Earth Environment and Planetary Sciences (<https://deeps.brown.edu/>), the Department of Molecular Biology, Cell Biology and Biochemistry (<https://mcb.brown.edu/>), the Institute at Brown for Environment and Society (<https://ibes.brown.edu/>), and the Warren Alpert Medical School.

How to apply: Applications must be submitted through Interfolio (<https://apply.interfolio.com/130379>). Applicants should submit (1) a cover letter, including the

names and contact information of at least three professional references; (2) a curriculum vitae; (3) a research statement; (4) a teaching statement; and (5) a diversity statement. The research and teaching statements should articulate a record of research and teaching accomplishment. These statements should also develop a forward-looking argument that lays out a vision for the next ten years of research and teaching in EEOB at Brown. Brown University has developed a Diversity and Inclusion Action Plan (<https://diap.brown.edu/plans-reports/diap-phase-ii-2021>) to ensure that all members of our community all who live, work and study at the University are valued, respected and provided with equal opportunities to thrive. The diversity statement should address how the candidate is prepared to advance a research, teaching and service program that addresses the principles discussed in the Brown University Diversity and Inclusion Action Plan. To receive full consideration applications must be received by October 1, 2023. On-campus interviews are anticipated during October - December, 2023, and the position will begin on July 1, 2024.

As an EEO/AA employer, Brown University provides equal opportunity and prohibits discrimination, harassment and retaliation based upon a person's race, color, religion, sex, age, national or ethnic origin, disability, veteran status, sexual orientation, gender identity, gender expression, or any other characteristic protected under applicable law, and caste, which is protected by our University policies. Please do not hesitate to contact me with questions about the position.

Sincerely, James R. Kellner Associate Professor of Ecology, Evolution and Organismal Biology Brown University, Providence RI

David M. Rand Stephen T. Olney Professor of Natural History Chair, Department of Ecology, Evolution and Organismal Biology Box G-W, 80 Waterman Street Brown University, Providence, RI 02912 Phone: (401) 863-2890 (Office - Walter Hall 202) (401) 863-1063, or -6378 (Lab - BioMed Center 516-518-523) www.davidrandlab.org <https://vivo.brown.edu/display/drand>

<https://www.brown.edu/research/projects/computational-biology-of-human-disease/>
David" <david_rand@brown.edu>

"Rand,

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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/evodir.html>

BrownU LabManager Metagenomics

We are seeking a Research Assistant in Molecular Ecology at Brown University.

Link to the job application: <https://brown.wd5.myworkdayjobs.com/staff-careers-brown?q=REQ189575> Job Description:

About Brown:

Brown University < <https://www.brown.edu/about> > is a leading research university distinct for its student-centered learning and deep sense of purpose. Our students, faculty and staff are driven by the idea that their work will have an impact in the world.

Brown University offers a flexible work/life balance; summer hours, winter break and a comprehensive Benefits package including time off, annual paid holidays; benefits offerings including health, dental, vision, tuition assistance, retirement, wellness, employee discounts and more. To learn about Brown University's benefits, visit the University Human Resources web page *here* < <https://www.brown.edu/about/administration/human-resources/benefits> > for further information.

About the Opportunity:

At this dynamic cross-campus center, the *Institute at Brown for Environment and Society* < <https://ibes.brown.edu/> > (IBES), students and faculty conduct groundbreaking research and build creative solutions to complex 21st-century problems in climate and sustainability. Work at IBES combines an understanding of the natural world and human dimensions because environmental stewardship, human rights, and economic well-being are inextricably linked.

Through our unique interdisciplinary approach, IBES cultivates actionable research outcomes, while equipping and empowering the change agents of tomorrow through our rigorous and diverse academic programs.

IBES faculty, staff, and students play key roles in the global conversation about environmental issues - on campus, at the State House, in boardrooms, and at the United Nations.

At Brown, and within IBES, we celebrate diversity in all its forms, and work together to create a collaborative, inclusive, and equitable work environment where

everyone can achieve their professional goals.

Responsibilities:

The lab of Dr. Tyler Kartzinel at Brown University (*www.kartzinellab.com* < <http://www.kartzinellab.com/> >) is seeking a Laboratory Manager to support research on the diets, microbiomes, genomes, and metagenomes of wildlife. The lab uses cutting-edge genetic technologies to advance major research in the field of molecular ecology; we work in close collaboration with major conservation organizations around the world with major support provided by the NSF, NIH, and others.

The Laboratory Manager will be responsible for the following:

-
- Ensure safe and proper best practices and related adherence to regulations are utilized in the lab -
- Ordering and maintaining appropriate levels of research supplies. -
- Working with and supporting undergraduate and graduate students and postdoctoral associates -
- Supervising undergraduate students. -
- Oversees all order requests, the lab budget for supplies and analysis costs. -
- Overseeing eventual sequencing working with service-center -
- Assist with chemical inventory and biological resource collections -
- Assist with database management (data backups, submissions to GenBank, etc.) -
- Assist in managing purchasing and billing for the lab (order new consumables, supplies, equipment, and purchase orders as needed with the PI's supervision) -
- Conduct standard molecular biology laboratory protocols involving DNA extraction, PCR, and gel electrophoresis -
- Conduct sequencing library preparation (Sanger, Illumina, etc.) -
- Assist with training and orientation of students, postdocs, and visitors as directed by the PI -
- Assist with data collection as required for grant deliverables under the supervision of the PI -
- Keep organized records of research samples and experimental protocols -
- Stock lab consumables and maintain inventory for general lab use (tubes, tips, reagents) -

Assist with maintaining lab equipment and updating health and safety procedures -

Interface with diverse members of our campus community (administrative staff, health and safety, facilities, IT, etc.)

The ideal start date will be Fall 2023, with some flexibility possible for the successful applicant. This is a potentially long-term position with a fixed-term contract. The initial end date will be October 31, 2024, but we expect to extend the position based on funding and performance.

Qualifications:

Education and Experience

-

Bachelor's degree in life sciences or equivalent; Master's preferred -

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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>

California InstituteTech FunctionalGeneticTech

The Parker lab at Caltech is searching for a Functional Genetic Technician to generate genetically modified rove beetles (*Dalotia coriaria*) for the study of behavior and chemical ecology.

The successful candidate will work with the Principal Investigator and lab members (graduate students and postdocs) to establish and maintain engineered beetle lines created using CRISPR/CAS9 gene editing and transposon-mediated transgenesis technologies.

The position requires competence in molecular biology techniques for the design and construction of plasmid vectors and sgRNAs for insect genome engineering. The position also demands careful screening and husbandry of insect cultures. Necessary bioinformatic skills can be acquired through training in the Parker lab.

Essential Job Duties

- Molecular biology methods (DNA/RNA extraction, PCR, cloning, cDNA synthesis). - Design and synthesis of sgRNAs and transformation vectors for gene editing

and transgenic manipulation of rove beetles. - Screening and husbandry of transgenic and mutant rove beetles to establish stable genetically modified lines. - Working with genomic and transcriptomic data for the above tasks. - Maintenance of genetically modified beetles. - Working with postdocs and students to design and engineer project-specific genetic constructs. - Basic Qualifications

- BS in a biology-related field with at least 1 year of relevant work experience. - Demonstrated molecular biology experience. - Preferred Qualifications

Experience with insect genetic manipulation. Experience with plasmid design and construction. Experience with insect transgenesis. Experience with insect rearing/husbandry. Required Documents

Resume

Apply: <https://phf.tbe.taleo.net/phf03/ats/careers/v2/viewRequisition?org=3DCALTECH&cws=37&rid=9287> For more info contact: joep@caltech.edu

Joe Parker, Ph.D. California Institute of Technology Division of Biology and Biological Engineering 1200 E. California Blvd. MC 216-76 Pasadena, CA 91125

Tel: +1 626 395 8729 <https://www.beetles.caltech.edu/> "Parker, Joseph" <joep@caltech.edu>

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quality teaching. Preference will be given to candidates at the Assistant Professor level; however, well-qualified applicants at the associate or full professor level may also be considered. The term of an initial untenured appointment is for four years and is contingent upon completion of the Ph.D. degree.

Please submit on-line applications, and include a brief cover letter; curriculum vitae; relevant publications, a description of proposed research; and a statement of teaching interests. Applicants should submit a diversity and inclusion statement that discusses past and/or anticipated contributions to improving diversity, equity, and inclusion in the areas of research, teaching, and/or outreach.

Applicants should arrange to have 3-4 reference letters uploaded.

Applications must be submitted no later than 30 September 2023.

<https://applications.caltech.edu/jobs/devorgbio> Joe Parker, Ph.D. California Institute of Technology Division of Biology and Biological Engineering 1200 E. California Blvd. MC 216-76 Pasadena, CA 91125

Tel: +1 626 395 8729 <https://www.beetles.caltech.edu/> "Parker, Joseph" <joep@caltech.edu>

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Caltech EvolutionaryBiology

The Division of Biology and Biological Engineering (BBE) at Caltech is seeking new faculty in the area of Developmental and Organismal Biology. Areas of interest include but are not limited to: understanding development at the levels of transcription, translation and post-translational modifications; study of stem cells in animal and plants or in culture; comparative studies of animal and plant evolution; morphogenesis in development, studied from a chemical and physical perspective; and external sources that shape development at the level of pattern formation, morphology, and/or interaction of cells/organisms. We are interested in candidates who will establish an innovative, interdisciplinary research program studying fundamental processes in developmental and organismal biology.

Successful applicants are expected to develop innovative research programs and to be committed to high

Canberra ConservationGenomics

Dear evoldir,

We would greatly appreciate it if you could be so kind in forwarding the following position for a Research Fellow in Conservation Genomics to your community.

<https://uctalent.canberra.edu.au/cw/en/job/499776/-research-fellow-in-conservation-genomics> Cheers,

Luis

luis.mijangos@gmail.com

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Centre College Kentucky Two Teaching Evolution

Two Tenure-track Biologists

Centre College invites applications for two tenured or tenure-track positions in Biology at the rank of Associate or Assistant Professor to begin in August 2024. We seek teacher-scholars who will enhance the learning and teaching environment at Centre College with their experiences, ideas, perspectives, and scholarship. A successful candidate will have the necessary expertise to teach at least two of the following courses: Microbiology, Plant Biology, Principles of Genetics, or Ecology, as well as courses in each candidate's area of specialty. A successful candidate may also contribute to Centre's innovative general education curriculum and interdisciplinary programs. Collaborative research with undergraduates is expected and supported. The successful applicant must have a Ph.D. in the biological sciences or related field by the time of appointment.

Centre College is committed to an environment that welcomes and supports diversity. As noted in the Statement of Community, Centre strives to create an environment where individuals of diverse backgrounds have the opportunity to exchange ideas and share in the richness of mutual experiences. Therefore, the Biology program strongly encourages applications from candidates who further diversify our faculty, who celebrate the rich diversity of our student body, and who utilize inclusive and engaging pedagogical practices. A number of resources support faculty success, including a robust Center for Teaching and Learning, peer mentoring, and endowed funding for professional development.

Centre College is a highly selective liberal arts college of about 1,400 students, has one of the nation's premier study-abroad programs and is among the top National Liberal Arts Colleges by U.S. News & World Report. Classes are small and academic standards are high. Centre graduates enjoy extraordinary success, with entrance to top graduate and professional schools, prestigious fellowships for further study abroad, and rewarding jobs. The College is located in Danville, Kentucky, a town of 18,000 recognized for its high quality of life. It is within easy driving distance of Lexington, Louisville, and Cincinnati. For information about the College, visit our web site at www.centre.edu. Centre College is a proud member of the Greater Kentucky Higher Educa-

tion Recruitment Consortium: www.greaterkyherc.org. The Greater Kentucky HERC is a non-profit organization composed of a diverse group of colleges, universities, hospitals, government agencies, non-profit organizations, and members of private industry committed to recruiting and retaining a diverse, talented workforce. Member representatives include faculty, staff, human resources professionals, institutional leaders, and faculty relations experts. Centre College is an equal opportunity employer.

To apply, please go to <https://apply.interfolio.com/129886> to submit a letter of application that includes your cover letter, CV, transcripts, three letters of recommendation, teaching philosophy, research interests, and a statement that explains the importance of diversity and inclusion and how you would contribute to and/or address issues of diversity and inclusion at Centre. Review of applications will begin September 8, 2023.

Kelly O'Quin Associate Professor of Biology

600 West Walnut Street Danville, Kentucky 40422 Phone: 859.238.5370 Availability: <https://centre.campus.eab.com/pal/-X5G80HzZiM> www.centre.edu "Kelly E. O'Quin" <kelly.oquin@centre.edu>

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ClemsonU Evolutionary Biology

Position Description: Lecturer in Evolutionary Biology at Clemson University

The Department of Biological Sciences at Clemson University invites applications for a 9-month, renewable, non-tenure track Lecturer or Senior Lecturer position to begin preferably, January 1, 2024. We seek a candidate with interest and experience in evolutionary biology, including a background in both micro- and macroevolutionary processes at phenotypic, genotypic, and molecular levels. We invite candidates that address engagement and encourage diversity in the classroom and the community.

Teaching responsibilities during the academic year would focus on delivery of in-person, large enrollment courses at primarily the undergraduate level including evolutionary biology. General expectations involve development and delivery of course content, assessment

of students, use of Canvas learning management system, assisting students during office hours, and working collaboratively with colleagues to improve the learning experience for Clemson students. There may be future opportunities to teach in other areas or in online courses for the online M.S. in Biological Sciences program < <https://www.clemson.edu/science/departments/biosci/academics/online-masters/index.html> >. There are also opportunities to teach on-campus, online, or study abroad during the summer. Successful candidates will have a desire to join fully in the varied activities of our large department and to take on service responsibilities as they progress through the ranks.

The Department supports faculty development at all ranks and tracks. Promotion through the three levels of lecturer ranks - Lecturer, Senior Lecturer, Principal Lecturer - is expected. Salary level will be commensurate with education and experience, and a benefits package is included.

About the Department or School: The Department of Biological Sciences at Clemson University includes faculty with expertise across the areas of ecology, evolution, and organismal biology; microbiology; molecular, cellular, and developmental biology; and environmental toxicology to advance the University's discovery mission and to provide strong educational programs at both the undergraduate and graduate levels.

The Department, located within the College of Science, is home to ~50 full-time faculty, including 16 lecturers, supporting research and degree programs in Biological Sciences, Microbiology, and Environmental Toxicology. The Department's student population includes over 1700 undergraduate students in the B.A. and B.S. degree programs in Biological Sciences and the B.S. degree program in Microbiology. The Department also has ~70 graduate students in M.S. and Ph.D. programs in Biological Sciences, Microbiology, and Environmental Toxicology and ~150 students in the online M.S. program in Biological Sciences for Science Educators.

For more information about the Department of Biological Sciences at Clemson University, please visit the Department's website at <http://www.clemson.edu/science/departments/biosci/>. For more information about Clemson, please visit the website <http://www.clemson.edu/>. Qualifications: Successful candidates should hold a Ph.D. in biological sciences or a related discipline at the time of appointment or hold a M.S. in biological sciences or a related discipline with significant teaching experience in evolution, including large enrollment courses and/or labs. Ideal candidates will have demonstrated strong communication skills, either through science communication and outreach, or

through experience in teaching or assisting to teach university-level courses including evolutionary biology.

Application Instructions: For full consideration, applications should be submitted by 15 September 2023. Review will continue until the position is filled.

Applicants should submit the following items via Interfolio at <https://apply.interfolio.com/129559> 1. cover letter detailing why the applicant would like to join the Department of Biological Sciences at Clemson University 2. curriculum vitae 3. statement of teaching philosophy, experience, and interests with attention to describing teaching strategies currently used or planned to use to foster diversity and inclusion 4. course evaluations, peer evaluations, or other evidence of past teaching performance 5. names and contact information for three professional references

Inquiries should be directed to Margaret Ptacek, chair of the search committee (mptacek@clemson.edu).

*Note: References will not be contacted until the final stages of the interview process.

Equal Employment Opportunity Statement:

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FordhamU NewYork QuantitativeBiology

Assistant Professor Position: Quantitative Biology, Biological Sciences Department, Fordham University

Location Rose Hill Campus (Bronx, NY)

Open Date Jul 27, 2023

Salary Range or Pay Grade \$94,000-\$110,000

Deadline Oct 30, 2023 at 11:59 PM Eastern Time

Submit applications to: <https://apply.interfolio.com/128986> Description Applicants are invited to apply for a tenure-track position in Quantitative Biology at the Assistant Professor level in the Department of Biological Sciences at Fordham's Rose Hill Campus in the Bronx, New York, beginning Fall 2024.

The faculty member will be expected to conduct research in any area of quantitative biology, which may include

applying computational analyses of large datasets to understanding questions surrounding gene regulation, the structure and function of proteins, spread of diseases through populations, interactions among species in complex communities, genomics of adaptation to climate change, or phylogeographic and phylogenetic analyses, for example. The research of the applicant should complement the existing strengths of the department. Applicants will contribute to the Department of Biological Sciences' MS and PhD graduate programs, and should demonstrate a commitment to teaching undergraduate and graduate courses. The applicant will also support the interdisciplinary minor in Bioinformatics offered through the Computer and Information Sciences Department.

Priority will be given to candidates who show a commitment to broadening participation of members of underrepresented groups in science through research, pedagogical practices, and public engagement, and who would contribute to Fordham University's goals of increasing diversity, equity and inclusion.

We offer additional research facilities at the Louis Calder Center Biological Field Station and opportunities to collaborate with scientists at the Albert Einstein College of Medicine, New York Botanical Garden, and the Wildlife Conservation Society.

Qualifications Applicants are required to have a Ph.D. in a life science or related field, and should have postdoctoral experience and a substantial record of published work. The successful candidate will be expected to supervise an independent research program that will attract extramural funding, provide research mentoring for graduate and undergraduate students, and offer professional service to the Department and University.

Application Instructions Applicants should submit a cover letter, curriculum vitae, contact information for three references, research, teaching, and diversity statements, as well as articles via Interfolio. Questions can be directed to the Biological Sciences Department Chair Dr. Steven J. Franks (franks@fordham.edu).

For full consideration, applications should be received and completed at <https://apply.interfolio.com/128986> by October 30, 2023.

Equal Employment Opportunity Statement Fordham University is committed to excellence through diversity and welcomes candidates of all backgrounds.

Fordham University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, orientation, gender identity or expression, pregnancy, age, national origin, disability status, genetic information,

protected veteran status, or any other characteristic protected by law.

Jason Munshi-South <jmunshisouth@fordham.edu>

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Instituto de Biociências UdeSo Paulo Plant Evolution

The Institute of Biosciences of the University of São Paulo invites applications to fill one full time position at the rank of Professor Doctor in the Department of Botany, with a salary of R\$ 14.761,02, in the area of "Systematics, evolution and biogeography of Vascular Plants." Applications must be received from 8:00 a.m (Brazilian Standard Time, UTC-3) on August 7th, 2023 by 6:00 p.m. (Brazilian Standard Time, UTC-3) on September 15th, 2023. The program for the public competition includes the following 11 subjects: 1. Fundamentals of Biological Systematics and reference systems (classification and nomenclature). Cladogenesis and anagenesis. Character, homology, homoplasy and use of different sources of information for phylogenetic inference. Monophyly and synapomorphy. 2. Phylogenetic Systematics: inference based on morphological and/or molecular data. The role of structural data in the era of Genomics. 3. Theoretical and methodological development of Historical Biogeography. 4. Phylogenetic Systematics (based on morphological and molecular data), taxonomy and fundamental steps in the evolution of the major lineages of tracheophytes: lycophytes and euphyllophytes: monilophytes and lignophytes, with emphasis in spermatophytes (cycadophytes, ginkgophytes, pino-phytes, gnetophytes and angiosperms). 5. Angiosperms: evolutionary novelties with emphasis in reproduction; characterization, origin, phylogeny and the bases of the APG IV System. 6. Diversity and evolution of angiosperms: basal clades and magnoliids. 7. Diversity and evolution of angiosperms - monocots: characterization, origin, major groups and main families. 8. Diversity and evolution of angiosperms - eudicots: basal groups, main orders and families of rosids. 9. Diversity and evolution of angiosperms - eudicots: main orders and families of asterids. 10. Herbarium: its collections and functioning; informatization and digitalisation of the collections and availability on a broad scale; relevance to the advance of researches in systematics, floristics and biogeography. 11. Integrative Taxonomy:

current advances and challenges. Taxonomic impediment, acceleration of the biodiversity loss, provision of subsidies for conservation.

Applications must be submitted online at <https://uspdigital.usp.br/gr/admissao> For details, including procedures for validation of doctoral degrees issued by foreign institutions, please contact the e-mail “academica@ib.usp.br”.

Benefits, promotions, and general information (v. 17/05/2023)

In addition to the base-salary, USP provides a number of financial and non-financial benefits. Below, you will find a summary of these benefits, along with information about promotions and other services available on campus. Please note that this summary serves as a general overview, and prospective professors are encouraged to explore the provided links for more detailed information.

*1. Benefits**[1]* <#m_7629386280049166855_ftn1>

a. Grocery Allowance

The grocery allowance enables the purchase of food-stuffs.

Monthly amount: R\$ 1,090.00 (as of February 1, 2022).

Available on the 4th business day of each month through credit on an electronic chip card for use at affiliated commercial establishments.

b. Meal Voucher

The meal voucher subsidizes the daily acquisition of restaurant meals for work days (minus any travel per diems received in the same period).

Benefit value: unit value of R\$ 45.00 (as of February 1, 2022). Beneficiaries contribute 20% of the monthly amount received, deducted from their payroll.

Available on the 4th business day of each month through credit on an electronic chip card for use at affiliated commercial establishments.

c. Daycare Allowance

The daycare allowance covers part of the expenses of employees in the care of their dependents up to 6 years of age, except those enrolled in an USP daycare, infant recreation center, or school.

Benefit amount: R\$ 793.44 per month per dependent (as of February 1, 2022).

d. Special Education Allowance

Financial assistance benefit to employees with children with special needs according to Article 4 of Federal Decree No. 3,298/99, who are enrolled in official education, culture, or leisure establishments.

The employee is prohibited from simultaneously receiving the daycare allowance for the same dependent.

Benefit amount: R\$ 793.44 per month (as of March 1, 2022).

The benefit is credited to the payroll along with monthly wages.

2. Health/Hospitals

a. Health Insurance Subsidy

The Health Insurance Subsidy is intended to subsidize the expenses of purchasing health care plans duly registered with the National Supplementary Health Agency, of free choice and responsibility of the beneficiaries, extending to employees who contribute to IAMSPE or equivalent public institution.

Table of Reference Values for the Basic Plan (Hospital room) and Maximum

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JamesMadisonU TeachingEvolution

Assistant Professor of Biology, Discipline-Based Education Research

<https://joblink.jmu.edu/postings/15259> The Department of Biology at James Madison University invites applications for a nine-month, tenure-track Assistant Professor of Biology with expertise in Discipline-Based Education Research (DBER). This is a full-time appointment beginning August, 2024.

Position Description: The successful candidate for this biology education research position is expected to develop a productive, externally-funded research program in post-secondary biology education or science education that engages students. The successful candidate will join a thriving community of more than 50 biologists with broad sub-disciplinary diversity and will be expected to contribute to teaching undergraduate introductory biology courses as well as upper-level undergraduate or graduate courses related to their area of specialization. We seek candidates who value undergraduate research and mentoring, with an interest in engaging in a collaborative teaching and research environment in support of

the academic program of the unit. The successful candidate will be expected to contribute to the department's continuing efforts and process relating to building inclusive excellence in science education to promote the success and retention of all students.

Minimum Qualifications: A Ph.D. in biology, biology education, or a relevant field is required at the time of appointment; demonstrated experience in biology education research; potential for or past success securing external funding; demonstrated scholarly activity in the areas of biology or science education; potential or past experience in mentoring students; experience with student-centered evidence-based teaching practices; an ability to teach introductory courses in biology; a demonstrated ability to communicate and collaborate; and a commitment to access, inclusion, and diversity in higher education.

Preferred Qualifications: The ability to teach undergraduate-level or graduate-level organismal courses that complement current offerings and/or courses that support the department's commitment to K-16 science education; teaching experience at the university/college level; and research experience and/or interests relating to equity and inclusion in college science and assessment.

About the James Madison University Biology Department

The Biology Department at James Madison University currently serves over 1000 undergraduate majors and 19 master's students. We offer a wide variety of courses for biology majors, general education and pre-health profession majors, including a 4-semester lab-intensive core curriculum. The Department of Biology is housed in the modern 90,000 ft² Bioscience building, with numerous facilities to support the scholarly and educational pursuits of faculty and students.

The department is committed to creating an equitable and inclusive environment that will allow us to recruit and retain a diverse population of faculty, staff, and students. The successful candidate will be expected to adopt these principles in their teaching, mentorship, scholarship, and service to the institution.

Please visit our web site at <http://www.jmu.edu/biology/> for more information about the department.

To apply, please visit (<https://joblink.jmu.edu/postings/15259>). Use this site to submit:

* Letter of application (up to 2 pages) that addresses the outlined minimum and preferred position qualifications
 * Curriculum vitae
 * A teaching statement (up to 2 pages) that describes your planned and/or ongoing

approach to:
 * Effectively teach undergraduate students
 * Promote an equitable climate for students from diverse backgrounds
 * A research statement (up to 2 pages) that includes:
 * A 5-year plan that involves undergraduate students at JMU
 * Plans to promote an equitable climate for student researchers from diverse backgrounds
 * A description of ways your scholarly activity relates to diversity, equity, inclusion, and/or justice in biology, biology education, or science education
 * The names and contact information for three professional references that can speak directly to your teaching and/or research experience and aptitudes. Please do not ask references to submit letters of recommendation at the time of application; references will be contacted for a letter of recommendation and/or reference check by phone as candidates move forward in the search process to the interview stages.

Review of applications will begin on 9/22/2023. Incomplete applications will not be considered by the search committee. For more information about the position, please contact Joe Harsh (harshja@jmu.edu).

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Kenya Amboseli Baboons Project Manager

Project Manager - Amboseli Baboon Research Project

Preferred Personnel Africa seeks to hire a full-time, potentially long-term Project Manager for the Amboseli Baboon Research Project (ABRP) in Kenya. Founded in 1971, the ABRP studies baboon ecology, behavior, and evolution in the Amboseli region of Kenya (amboselibaboons.nd.edu). The ABRP is among the longest-running studies of wild primates in the world. It has had a considerable impact on biology, primatology, and evolutionary anthropology, contributing over 300 peer-reviewed papers over the years; more information is available at the ABRP website, amboselibaboons.nd.edu/. Today the ABRP is a collaboration of Duke University, the University of Notre Dame, and the Max Planck Institute for Evolutionary Anthropology, in partnership with the Kenya Wildlife Service, the Kenya Wildlife Research and Training Institute, the University of Nairobi, the

Kenya Institute of Primate Research, and the National Museums of Kenya.

The ABRP Project Manager supervises and provides direction to the ABRP team in Kenya, and reports to and co-ordinates scientific, personnel, and logistical issues with an international team of Project Directors, based in the USA and Germany. The Project Manager has the following duties and skills.

Primary duties - Leadership and coordination: Provide overall leadership and manage the ABRP in coordination with ABRP Project Directors. This includes responsibility for day-to-day operations, full delivery of project outputs, development and implementation of innovative approaches to project execution, compliance with the project's plans and with national and international legal and regulatory requirements, with assistance from the Project Directors where appropriate. - Strategic planning: Develop detailed plans and adopt appropriate management processes to track project progress. Responsibilities include the early identification of problems regarding project milestones and deliverables and implementation of necessary remedies, in consultation with Project Directors where necessary. - Technical and scientific support: Oversee the research leading to scientific manuscripts produced by the ABRP Project Directors; contribute to scientific manuscripts; develop and deploy protocols related to new scientific technology and equipment as required from time to time; maintenance of the existing technologies and equipment used by the project. - Training and capacity building: Train and instruct ABRP employees in scientific methods in field biology. - Quality assurance: Supervise, co-ordinate, and ensure high accuracy and high quality in project deliverables and outcomes, in line with best practices in the scientific research community. Oversee the transmission of data and progress reports to Project Directors. - Personnel management: Provide day-to-day oversight over the project field team, make recommendations to the Project Directors with respect to hiring and termination, and provide training and mentorship to staff. - Project finances and resources: Manage ABRP funds as directed by Project Directors to ensure effective use of resources; perform strategic planning for ABRP projects, including assisting in preparation of budgets, to include staffing and operational needs. - Stakeholders management: Build and manage strong relationships with key stakeholders, including the local community, and act as a primary contact point for stakeholders and partners. - Problem solving. Troubleshoot general project issues and communicate with Project Directors when problems arise.

Qualifications: - Bachelor's degree in biology or a related field is required; post-graduate degree is desirable.

- Management experience and/or experience providing strong leadership in a collaborative team is required. - Extensive knowledge of various project management methodologies and technologies. - Strong organisational and problem-solving skills. - Excellent communication skills, including ability to maintain proactive communication with project leaders, staff and community members. - Attention to detail and accuracy in record keeping for personnel management, equipment and supply inventories, equipment maintenance, data collection, and finances. - Proficiency with Microsoft Word and Excel, Google forms, Dropbox, and various emails, and the ability to learn new software as needed. - Driver's license is required; ability to drive manual transmission vehicles is highly desirable. - Fluency in spoken and written English is required. Fluency in Kiswahili is desirable; knowledge of Maa is welcome.

Please submit a CV and cover letter, including the names of three references, to primevo_sec@eva.mpg.de. Applications will be accepted until the position is filled.

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LCAB UYork UK AnthropoceneBiodiversity

Professor of Anthropocene Biodiversity & LCAB Director

The Leverhulme Centre for Anthropocene Biodiversity (LCAB) researches the changing relationship between humanity and the natural world, and how we might maintain and develop a sustainable Earth. The Centre, which launched in 2019, represents a 10-year interdisciplinary collaboration between the University of York, the University of Sherbrooke, University College London and the University of St Andrews, funded by The Leverhulme Trust. LCAB recognises biological gains as well as losses, and identifies the circumstances under which changes are perceived as positive or negative. It aims to understand and inform society's response to these changes.

LCAB is home to a substantial community of academics, researchers and postgraduate students from a wide range

of disciplines. As such it is a dynamic environment where you will develop research and spearhead collaborations with academics from a host of intellectual perspectives. The Director will be supported by Associate Directors, a Centre Manager and Administrator.

The Role We seek an inspiring colleague to become the new Director of LCAB. You will take up your position at the start of the fifth year of the Centre's 10-year programme. You will continue to build the LCAB community and take forward and develop its research aims. We are looking for an internationally recognised researcher in any discipline relevant to Anthropocene biodiversity, in the natural sciences, social sciences or humanities, a collaborative leader who can harness research strengths across faculties, and be able to articulate the implications of biodiversity research for wider society. The Director will additionally contribute their relevant disciplinary expertise (from any background) and interdisciplinary perspective as Professor of Anthropocene Biodiversity, in the University of York's Department of Biology, contributing leadership, ideas and new (inter)disciplinary strength to the Department's research strategy and teaching portfolio, and more widely across the University. The Department of Biology is a large broad-spectrum biosciences department with disciplinary strength from ecology to biomedicine and an excellent reputation for both research and teaching.

You will:

- Be an inspiring leader, who will continue to grow the LCAB research community and encourage and enable the development of early career researchers - Provide high-level strategic leadership for LCAB, developing and carrying out internationally outstanding research, and collaborating with others both within and across disciplines - Continue to raise the profile of LCAB's research, developing new partnerships nationally and internationally and leveraging additional external funding

Skills, Experience & Qualification needed

We seek a leader with the capacity to guide LCAB's collaborative research successfully through the next stage of its development. This is a stimulating role with responsibility for driving a large and dynamic programme of research and engagement activities.

You will have: - Outstanding and internationally recognised knowledge and research experience of a subject area related to Anthropocene biodiversity - A PhD in a relevant subject area and an outstanding publication record in disciplinary-specific terms - An understanding of the most successful ways to foster interdisciplinary research and collaboration, including developing networks and partnerships - The ability to attract funds for

internationally excellent research - The skills to communicate research to a wide range of audiences and raise the profile of the Centre, and translate research into impact beyond academia - A track record of attracting and supervising exceptional early career researchers - The capacity to fulfil major leadership roles, including oversight of budgets

Informal enquiries may be directed to jane.hill@york.ac.uk or lcab-enquiries@york.ac.uk

Closing Date: 17 September 2023 Interview Date: 11 & 12 October 2023

Please visit Leverhulme Centre for Anthropocene Biodiversity for further information on the centre and Biology @ York for further information on the Department.

For the full job advertisement, please visit: <https://jobs.york.ac.uk/vacancy/professor-of-anthropocene-biodiversity-lcab-director-531679.html> The University strives to be diverse and inclusive - a place where we can ALL be ourselves.

We particularly encourage applications from people who identify as Black, Asian or from a Minority Ethnic background, who are underrepresented at the University.

We offer family friendly, flexible working arrangements, with forums and inclusive facilities to support our staff. #EqualityatYork

Leverhulme Centre for Anthropocene Biodiversity
<lcab-enquiries@york.ac.uk>

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LewisClarkC PortlandOregon VertebrateEvolutionBehavior

Lewis & Clark College seeks candidates with expertise in evolution and animal behavior to join our faculty. Please see the full ad below and reach out to search chair Dr. Margaret Metz (mmetz@lclark.edu) with any questions.

Assistant Professor of Animal Behavior Department of Biology Lewis & Clark College

Located in Portland, Oregon, Lewis & Clark College is a small liberal arts college with 2,100 undergraduates. We invite applications for a tenure-track assistant professor position in the Department of Biology with expertise in vertebrate animal behavior and evolution. We believe doing science is the best way to learn science, and we prize transformative and inclusive undergraduate mentorship starting in the classroom and extending to our research programs. The ideal candidate will conduct research centered on understanding vertebrate behavior in either terrestrial, freshwater or marine systems, and should be committed to developing a productive, inclusive, and externally funded research program involving undergraduates.

The successful candidate will be broadly trained, with an organismal, field-oriented perspective that appreciates the role of natural history in providing entry points for student engagement, learning, and inspiration. This perspective will support their teaching in a rotating slate of five lecture or lab courses per academic year. Courses may include our core introductory Biology series, upper division Animal Behavior with lab, Evolution, one or more upper division courses in fields related to their specialty (examples include Marine Biology, Conservation Biology, and/or a course centered on the candidate's organism/s or system/s of expertise), and contributions to the College's general education program, including our strong commitment to overseas education. We will prioritize candidates that complement our existing strengths and study systems/organisms, and with interests linked to interdisciplinary programming at Lewis & Clark College (including, for example, Neuroscience, Environmental Studies, Data Science, Health Studies, or Earth System Sciences).

Our nationally recognized Biology Department enjoys a warm, collegial atmosphere, and has a strong commitment to pedagogy that supports STEM diversity and equity. We also have a strong commitment to mentorship at all steps of professional STEM pathways. For more information about the Department visit: <https://college.lclark.edu/departments/biology/>. We invite applicants to join a supportive, creative, and collaborative Lewis & Clark College community of scholar-teachers as we prepare students for meaningful careers, civic engagement, and lifelong discovery. Together we seek a just and sustainable society, both locally and globally. This year we are searching for a total of six tenure-track positions in departments across our campus, including positions in Physics and Environmental Studies. We seek candidates who wish to become excellent teachers and scholars at an undergraduate institution and whose varied experiences, perspectives, and backgrounds can contribute to a diverse and inclusive community of

critical thinkers (see <https://www.lclark.edu/about/equity-and-inclusion/>). Our faculty closely mentor and advise students with varied backgrounds from across the US and around the globe. The college provides a paid pre-tenure junior sabbatical, mentoring, and professional development support.

A complete application must include the following:

1. Cover letter describing your interest in joining Lewis & Clark College and specifically how you aspire to contribute to a culture of equity, inclusion, and belonging on our campus and in our department
2. Curriculum vitae
3. Research statement summarizing your proposed research program, including the role of undergraduates
4. Teaching statement describing your teaching philosophy and preparation to teach students from diverse backgrounds
5. Graduate transcript (unofficial copies are acceptable for the first round of review)
6. (optional) Applicants may optionally provide samples of scholarship or teaching effectiveness that are not otherwise easily available (e.g., grant proposals, works in progress, teaching evaluations, etc.)
7. Following the first review of applications, we will solicit three letters of recommendation to be uploaded within two weeks of notification.

Materials may be addressed to search committee chair, Dr. Margaret Metz, and must be submitted via Interfolio (<http://apply.interfolio.com/127831>). Click "Apply" to create your free account. Review of applications will begin on September 18 and continue until the position is filled. A Ph.D. or terminal degree is required at the time of appointment in Fall 2024, and postdoctoral

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MichiganStateU Tech SeedCollectionOrganizer

The Lowry Lab and the MSU's Plant Resilience Institute is hiring a Seed Collection and Germplasm Coordinator.

This position will be physically located in the laboratory of David Lowry on the MSU main campus, as initial efforts will be dedicated to organizing monkeyflower seed stocks held by the Lowry Lab. If successful, the Coordinator will be provided with the opportunity to organize and curate other germplasm collections at MSU.

The responsibilities of the Germplasm Coordinator will be to:

Develop and implement strategies to organize existing collections of seeds using modern barcoding techniques. Design a database for germplasm collections at MSU and make the database accessible in a web-based format. Travel to other universities and organizations to collect relevant germplasm that will be brought back to MSU. Write and submit applications for the collections of new seeds from natural locations. Establish contacts and pursue approval to import seeds from other countries following the Nagoya Protocol. Propagate and refresh existing seed stocks through greenhouse growth. Prepare dried plants for submission as herbarium vouchers. Collect tissue for future DNA extractions.

<https://careers.msu.edu/en-us/job/515592/-germplasm-coordinator-research-technologist-i>

David B. Lowry

Associate Professor

Department of Plant Biology

Michigan State University, USA <http://davidbryantlowry.wordpress.com/> “Lowry, David” <dlowry@msu.edu>

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“Lowry, David” <dlowry@msu.edu>

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MNH AuburnU
CuratorCollectionManager
AquaticInvertebrates

Curator (Collection Manager) of Freshwater and Marine Invertebrates

Job Summary: The Auburn University Museum of Natural History (AUMNH) is seeking a Curator (Collections Manager) for its Freshwater and Marine Invertebrate collection. The successful candidate will have curatorial

experience in crustaceans, arthropods, mollusks, echinoderms, annelids, cnidarians, and/or other invertebrates. Our collections of ~45,000 lots are currently strong in freshwater crayfishes, mollusks, and insect nymphs and Antarctic Invertebrates. Duties of the collection manager will include sorting and identifying collections, maintaining existing collections, processing loans of materials, and maintaining the computer database (Specify). The candidate will be expected to contribute to AUMNH Outreach and education efforts. For more information on the AUMNH, please visit: <http://aumnh.auburn.edu>. Minimum Qualifications: Entry into the applicant pool requires a Bachelor’s Degree from an accredited institution in Biological Sciences or a relevant discipline, plus 2 years of relevant experience in the procurement and maintenance of collections.

Employer will consider an advanced degree in lieu of experience at the rate of 1 year of education per year of required experience.

The successful candidate will have knowledge of a wide variety of Freshwater and Marine Invertebrate collections, knowledge of fundamental concepts, and practices and procedures in the procurement and maintenance of collections. Excellent written and interpersonal communication skills are required.

Please visit the following to apply: <https://www.auemployment.com/postings/40323>. A commitment to an inclusive and diverse campus environment is required.

Desired Qualifications: A MS or PhD in Biology or a related field. Familiarity with database programs, particularly Specify, and be committed to The Society for Preservation of Natural History Collections best practices and the open presentation of collections data on the internet.

Closing Date: Review of applications will begin September 22nd and continue until a successful applicant is found.

If you have any questions, please contact Dr. Jonathan Armbruster, Director, Auburn University Museum of Natural History, armbrjw@auburn.edu, 334-844-9261.

Jonathan W. Armbruster Director and Curator of Fishes, Auburn University Museum of Natural History Professor, Department of Biological Sciences 101 Life Sciences Building Auburn, AL 36849 334-844-9261

Office: 131 Biodiversity Learning Center (M. White Smith)

Jonathan Armbruster <armbrjw@auburn.edu>

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NaturalHistoryMuseumLACo EntomologyCurator

Hello, The Natural History Museum of Los Angeles County (NHMLAC) is conducting a search for a Curator of Entomology.

Briefly, the Curator (Assistant or Associate level) of Entomology will lead research on insect and terrestrial arthropod biodiversity, oversee the growth and care of its collections, and provide content for a variety of public programs. The successful candidate will conduct collection-based research in evolutionary biology and/or ecology broadly defined and will be a leader in the care, growth, and use of museum collections with demonstrated interdisciplinary and inter-institutional collaborations. This is a rare opportunity for a unique position at a globally recognized natural history museum.

The NHMLAC's entomology collection is one of the institution's largest, and has approximately 6 million specimens of insects, spiders, and other terrestrial arthropods. It is also the largest collection of its kind in Southern California with specimens from all over the world. It is particularly strong in its holdings of ants, phorid flies, scarab beetles, and moths from North and Central America; and also includes a large and growing collection of arthropods in Cenozoic and Mesozoic amber, currently numbering approximately 3,000 pieces.

Please visit here for the full job advertisement < https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=2fc0a355-012e-4bef-9c85-724ae074a06a&ccId=19000101_000001&jobId=-452963&lang=en_US&source=CC2 >, which can also be accessed by visiting this webpage (<https://nhm.org/careers-our-museums/careers-natural-history-museum>) and clicking on the link for the Assistant Curator - Entomology position.

Best, Kayce

Kayce C. Bell, Ph.D. Assistant Curator of Terrestrial Mammals Natural History Museum of Los Angeles County kbell@nhm.org pronouns: she/her

Kayce Bell <kayce.bell@gmail.com>

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NewMexicoTech BiologyDeptChair

Biology Department Chair

The New Mexico Institute of Mining and Technology, also known as New Mexico Tech (NMT), invites applications for Chair of the Department of Biology. Required qualifications include (1) an earned doctorate in the biological sciences; (2) a significant record of scholarship and professional achievement; (3) dedication to the advancement of undergraduate and graduate education; (4) ability to lead, manage, and nurture a dynamic department with consideration to institute policies and priorities; and (5) commitment to the promotion of diversity and inclusion among faculty, staff, and students.

Applicants should have qualifications for appointment at the rank of tenured associate professor or professor. Salary and rank are commensurate with experience and qualifications as aligned with the details contained in NMT's < <https://www.nmt.edu/academicaffairs/docs/policies/NMT-Appointment-Promotion-Tenure-Policy.pdf> > Policy and Procedure for Appointment, Promotion & Tenure. < <https://www.nmt.edu/academicaffairs/docs/policies/NMT-Appointment-Promotion-Tenure-Policy.pdf> >

The Biology Department has approximately 120 undergraduate students pursuing BS and BA degrees in Biology and the BS in Biomedical Sciences. Approximately 15 graduate students are enrolled in the Biology MS and transdisciplinary Biotechnology PhD programs.

The successful candidate is expected to contribute to undergraduate and graduate education, including engaging students in research. Area of expertise is open, but should complement and expand upon existing biological expertise within the department and the institute.

New Mexico Tech, located in the central Rio Grande valley community of Socorro, specializes in science and engineering education and research and has an enrollment of approximately 1700 undergraduate and graduate students. Students at all levels participate in research. Per NSF, New Mexico Tech is the top public institution in the US and 18th overall (<https://nces.nsf.gov/pubs/nsf22321>) in the fraction of baccalaureate recipients going on to earn a PhD.

Application Submission and Deadline:

Applicants should email the following documents com-

bined into a single PDF to Ms. Rosa Jaramillo and Dr. Steve Simpson (Dean of Arts and Sciences) using the subject "Biology Chair":

1. A letter of interest that summarizes how their expertise, experience, and interests align with the required qualifications of the position
2. Curriculum vitae
3. Statement presenting the candidate's vision for the department
4. Brief description of research expertise and teaching experience
5. Names and contact information for four references familiar with the candidate's record of research, teaching and leadership

Application Deadline: For best consideration please apply by October 1, 2023.

Equal Employment Opportunity: NMT is committed to creating a community in which a diverse population can learn, live, and work in an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual. NMT is an Equal Opportunity Employer.

Benefits: Excellent benefits (health, vision, dental), tuition fee waiver, and a generous retirement plan.

Regional Attractions: New Mexico Tech is located in Socorro, in the scenic Rio Grande River Valley of central New Mexico, 75 miles south of Albuquerque with its many attractions, and 139 miles south of Santa Fe. Nearby mountains and desert canyons provide excellent opportunities for hiking, climbing, and mountain biking. The Bosque del Apache National Wildlife Refuge, located just south of Socorro along a major north-south flyway, offers some of the best birding in the United States.

joel.sharbrough@nmt.edu

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NHGRI-NIH Maryland Bioinformatics Comparative Genomics

Center for Genomics and Data Science Research
National Human Genome Research Institute
National Institutes of Health

Postdoctoral Fellowship in Bioinformatics and Compar-

ative Genomics

A postdoctoral training position is currently available in the Center for Genomics and Data Science Research of the National Human Genome Research Institute (NHGRI). The position is in the laboratory of Andy Baxevanis, Ph.D., whose research group uses comparative genomics approaches to better-understand the molecular innovations that drove the surge of diversity in early animal evolution. The overarching theme of Dr. Baxevanis' research program is focused on how non-traditional animal models can be used to convey critical insights into human disease research, in line with the NIH Intramural Research Program's renewed emphasis on developing new animal models for the study of basic biology.

With this translational context in mind, Dr. Baxevanis' group is currently leading international efforts to analyze the sequences and study the biology of two cnidarian species: *Hydractinia* and *Podocoryna*. The regenerative abilities of these colonial hydrozoans make them excellent models for the study of key questions related to pluripotency, allorecognition, and stem cell biology, work that will be significantly advanced by the availability of high-quality whole-genome sequencing data from these organisms. The successful applicant will have the opportunity to develop and apply bioinformatic approaches to these and other large-scale genomic data sets, focusing on the evolution of specific protein families and biological pathways that have putative roles in disease causation.

Candidates should have or be close to obtaining a Ph.D. or equivalent degree in bioinformatics, computational biology, computer science, molecular biology, or a closely related field. Candidates with a background in comparative genomics or evolutionary biology are particularly encouraged to apply. Programming skills and experience in the application of computational methods to genomic data are highly desirable. Applicants must possess good communication skills and be fluent in both spoken and written English. The ability to learn how to use new software and quickly become expert in its use, critical thinking, problem-solving abilities, and the ability to work semi-independently are required.

The NIH Intramural Research Program is on the Bethesda, Maryland campus and offers a wide array of training opportunities for scientists early in their careers. The funding for this position is stable and offers the trainee wide latitude in the design and pursuit of their research project. The successful candidate will have access to NHGRI's established and robust bioinformatics infrastructure, as well as a Top 500 high-performance computing resource available through NIH's Center for

Information Technology.

Interested applicants should submit a curriculum vitae, a detailed letter of interest, and the names of three potential references to Dr. Baxevanis at andy@mail.nih.gov. Postdoctoral traineeships are not available to scientists who have more than five years of relevant research experience since the receipt of their most recent doctoral degree.

For more information, please visit <https://irp.nih.gov/pi/andy-baxevanis>. The NIH is dedicated to building a diverse community in its training and employment programs.

“Baxevanis, Andy (NIH/NHGRI) [E]”
<andy@mail.nih.gov>

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NHM Lausanne Switzerland CuratorBotany

(French version below)

Curator at the Department of Botany, Natural Sciences Museum, Lausanne, Switzerland

The Office of Cultural Affairs of the Canton of Vaud is looking for a:

Curator at the Department of Botany (80% permanent contract)

MAIN TASKS

As part of the Cantonal Museum of Natural Sciences, which houses almost 7 million specimens in its Botany, Geology and Zoology Departments, you will be responsible for the management and conservation of dried plant herbarium collections, painted herbarium collections and other botanical collections. You will also manage the collections database and its interfaces. You conduct scientific studies and research projects in the field of botany, in direct connection with the natural history collections. You design permanent and temporary exhibitions. Finally, you take part in events and mediation activities within the institution.

DESIRED PROFILE

University Master’s degree in botany or equivalent qualification, ideally complemented by a doctorate in botany.

Previous experience in a position with similar respon-

sibilities, acquired within a science museum or in the research field. Fluency in French and English. Good knowledge of German desirable. In-depth knowledge of systematic botany. Ability to manage and develop collections. Ability to develop and monitor scientific projects. Experience in acquiring collections.

Sense of responsibility and public service ethics, adaptability, listening and communication skills, oral expression, writing skills, global vision and sense of perspective, organization and communication skills.

Place of work: Lausanne

Salary grade: 12

Miscellaneous:

Start date: February 1, 2024 or to be agreed upon

APPLICATION FORM

Service des affaires culturelles

rh.serac@vd.ch (in one single pdf file)

Reference number: 1911716

APPLICATION DEADLINE

17.09.2023

INFORMATION

Mr. Patrice Descombes, Chief Curator, Botany Department, Cantonal Museum of Natural Sciences

patrice.descombes@vd.ch

tel. 021 316 99 83

Online ad description in French:

<https://direktlink.prospective.ch/?view=192d68b2-ced5-49fb-80b7-71f6ad3584a1> Specifications in French:

https://vddata.prospective.ch/-CDC_Conservateur_trice_Herbier_30.06.23.pdf

MISSIONS PRINCIPALES

Au sein du Muséum cantonal des sciences naturelles, qui abrite près de 7 millions de spécimens au sein de ses Départements de botanique, de géologie et de zoologie, vous assurez la gestion et la conservation des collections d’herbiers de plantes séchées, des herbiers peints et des autres collections botaniques. Vous pilotez, par ailleurs, la gestion de la base de données des collections et de ses interfaces. Vous conduisez des études scientifiques et des projets de recherche dans le domaine de la botanique, en lien étroit avec les collections d’histoire naturelle. Vous concevez des expositions permanentes et temporaires. Enfin, vous participez aux événements et aux activités de médiation au sein de l’institution.

PROFIL SOUHAITÄ

Master universitaire en botanique ou titre jugé équivalent, complété idéalement par un doctorat en botanique.

Expérience préalable à un poste à responsabilités similaires, acquise au sein d'un musée scientifique ou dans le domaine de la recherche. Maîtrise du français et de l'anglais. Bonnes connaissances en allemand souhaitées. Connaissances approfondies en botanique systématique. Capacité à gérer et développer des collections. Compétences dans l'élaboration et le suivi de projets scientifiques. Expérience dans l'acquisition de fonds.

Sens des responsabilités et de l'éthique du service public, capacité d'adaptation, écoute et communication, expression orale, capacités rédactionnelles, vision globale et sens de la perspective, organisation et gestion de son temps.

Lieu de travail: Lausanne

Classe salariale: 12

Divers: entrée en fonction le 1er février 2024 ou à convenir

Au service du patrimoine mobilier et immatériel, des artistes et du public, le SERAC a pour mission de mettre en Œuvre la politique culturelle vaudoise, qui se déploie sur deux volets : le soutien à la création artistique et à la vie culturelle dans le canton et les missions patrimoniales des institutions cantonales (la Bibliothèque cantonale et universitaire et les musées cantonaux).

DOSSIER DE CANDIDATURE

Service des affaires culturelles

rh.serac@vd.ch (en un seul fichier pdf)

Référence: 1911716

DÄLAI DE POSTULATION

17.09.2023

RENSEIGNEMENTS

M. Patrice Descombes, Conservateur en chef du Département de botanique, Muséum cantonal des sciences naturelles

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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>

NHM London CuratorFishes

The Natural History Museum, London (NHM)

Curator or Senior Curator - Fish Group

Salary: £33,396 (Curator) or £40,282 (Senior Curator), subject to experience

Closing date: 0900, Friday September 29, 2023

Embedded within the Vertebrates Division, the Curator or Senior Curator of Fishes will be developing expertise (Curator) or a recognised expert (Senior Curator) in their field of collections-based science and will demonstrate relevant scientific scholarship (e.g., taxonomy, systematics, evolution). The post holder will be responsible for our world-class ichthyological collection, ensuring best practice in collections care, and providing access to research, teaching, and exhibitions. In addition, the Senior Curator will be expected to conduct and support collections-based research and participate in securing external funding for that purpose.

Further information and full job description can be found at the following link: https://careers.nhm.ac.uk/-templates/CIPHR/jobdetail_2901.aspx Rupert A. Collins <rupert.collins@nhm.ac.uk> <https://www.nhm.ac.uk/our-science/collections/zoology-collections/fish-collections.html> Rupert Collins <rupert.collins@nhm.ac.uk>

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**NHM LosAngelesCounty
DataScienceSpecialist**

Hello, The Urban Nature Research Center at the Natural History Museum of Los Angeles County is hiring a Data Science Specialist. Data scientists and/or urban ecologists interested in community science (also called citizen science or participatory science) approaches for studying urban biodiversity are especially encouraged to apply.

Briefly, the position is to work on a variety of research

projects and will include analyzing the spatial, temporal, and taxonomic biases present in museum specimen records and community science datasets and assessing the effectiveness of various community science efforts in reducing these biases. The education qualifications are Master's degree plus 3 years experience, or PhD in a relevant field.

This is a temporary, full-time exempt position with full benefits and the pay is \$66,744- \$70,257.

The full job ad is here: https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=2fc0a355-012e-4bef-9c85-724ae074a06a&ccId=19000101_000001&source=CC2&lang=en_US&selectedMenuKey=CareerCenter&jobId=450612 Best, Kayce

Kayce Bell, PhD Assistant Curator of Terrestrial Mammalogy Natural History Museum of Los Angeles County email: kbell@nhm.org

kayce.bell@gmail.com

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NortheasternU TeachingEvolution

The Department of Marine and Environmental Sciences at Northeastern University in Boston, Massachusetts invites applications from qualified candidates for a full-time teaching faculty position. Potential courses include Biostatistics and associated labs and recitations, Introduction to Data, as well as experiential courses (e.g., Experimental Design in Marine Ecology and Marine Spatial Planning) offered by the Three Seas Program at the Marine Science Center in Nahant MA.

We seek broadly trained candidates with expertise in biostatistics, teaching in R, experimental design and implementation. Areas of research focus could draw from evolution, genomics, natural resource management, environmental geoscience, sustainability sciences, conservation biology

Application will remain open until filled, please apply as soon as possible

More information:

<https://northeastern.wd1.myworkdayjobs.com/careers/job/Boston-MA-Main-Campus/Assistant-Associate-Teaching-Professor-Marine-and->

EnvironmentalSciences_R116265-1 K. E. Lotterhos, PhD (she/hers) Associate Professor Department of Marine and Environmental Sciences Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908

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

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StockholmU DataDrivenBiodiversity

Stockholm University is looking to recruit an Assistant Professor in the field of Data-Driven Evolution and Biodiversity. The position is part of the Data-Drive Life Science (DDLs) programme and comes with a generous startup package. The DDLs programme is a “big data” initiative, committed to recruiting and training the next generation of data-driven life science leaders and creating globally leading computational and data science capabilities within the life sciences in Sweden.

Further information about the position can be found here: <https://www.su.se/english/news/tenure-track-position-as-assistant-professor-in-data-driven-evolution-and-biodiversity-1.662984> Further information about the DDLs programme can be found here: <https://www.scilifelab.se/data-driven/> Application closing date: 25 October 2023.

Aelys Humphreys <aelyshumphreys@gmail.com>

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UBritishColumbia EvolutionaryBiology

“Assistant Professor in Evolutionary Biology

The Department of Zoology in the Faculty of Science at The University of British Columbia invites applications for two Assistant/Associate Professor positions in Evolutionary Biology. Preference is for appointments at the level of Assistant Professor, although appointments at the Associate Professor level will be considered in exceptional circumstances. These are tenure track/tenured

positions, with initial appointments to be made no earlier than July 1, 2024.

We seek applicants with an innovative research program to address fundamental aspects of evolution. We are excited to consider applications from all areas of evolutionary biology. Research areas that we are excited to see include, but are by no means limited to, the following:

- Machine learning/deep learning/ neural nets in evolutionary biology, including methods, data analysis and model testing.
- The development and/or application of comparative and phylogenetic comparative methods.
- High density phenomics, including the collection and/or analysis of large-scale phenotypic datasets related to morphology, behaviour or any other complex phenotype.
- Evolutionary development.
- Field-based approaches to evolutionary biology that study processes in natural settings.

Each position requires a Ph.D. degree, postdoctoral experience, and a strong record of research publications with demonstrated influence and creativity. Responsibilities include establishing and conducting an internationally competitive and externally funded research program, teaching at the undergraduate and graduate levels, supervising graduate students, and participating on service committees for the department, university, and academic/scientific community. Appointees will have a strong commitment to equity, diversity and inclusion, to creating a welcoming community for all, particularly those who are historically, persistently or systemically marginalized.

Each successful applicant will become a member of the Department of Zoology (www.zoology.ubc.ca) and a member of the Biodiversity Research Centre (BRC, <https://biodiversity.ubc.ca>). The Department of Zoology includes nearly 50 principal investigators and promotes integrative research in biology. Its faculty and students pursue cutting edge questions in Evolution, Ecology, Comparative Animal Physiology and Biomechanics, and Cell and Developmental Biology. Study systems range from molecules to ecosystems. The Biodiversity Research Centre is a world-class, highly interactive institute, comprising nearly 100 labs pursuing ground breaking research in evolution, ecology and conservation. The BRC is associated with the Beaty Biodiversity Museum, which houses over 2 million biological specimens. Evolutionary research in the BRC addresses questions across multiple levels of organization, using genomic, phylogenetic, and whole-organism approaches, both empirical and theoretical.

The Vancouver campus of UBC is situated on traditional, ancestral, and unceded territory of the x̱m̱É̱ḵÉ̱y̱m̱

(Musqueam). UBC is a global centre for research and teaching, consistently ranked among the top 20 public universities in the world. As one of the world's leading universities, UBC creates an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada, and the world.

Applicants should submit:

1. Cover letter (up to 2 pages) that outlines:
 - Your research vision and accomplishments
 - How your expertise, scholarship and planned research will integrate with the Department of Zoology and the BRC.
 - How you have displayed leadership through existing or proposed research, teaching, service, community engagement, outreach, contributions to equity, diversity and inclusion, or other relevant activities.
2. Curriculum vitae.
3. Statement (up to 2 pages) describing your current and proposed research program.
4. Statement (up to 1 page) of teaching interests and accomplishments, and a brief description of those core and specialist topics that you would be excited to teach.
5. Diversity statement (1 page) describing your lived background experience (if comfortable), and your past experience and future plans regarding working with a diverse student body, and contributing to a culture of equity and inclusion.
6. Up to 3 representative publications.
7. Applicants should arrange for three letters of reference to be submitted to the Academic Jobs Online system. Reference letters must be submitted by the deadline for applications to be fully considered.

Applications must be addressed to Drs. Dolph Schluter

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UCalifornia Berkeley FungalBiology

Assistant Professor, Fungal Biology Department of Plant and Microbial Biology View this position online: <https://aprecruit.berkeley.edu/JPF04065> The Department of Plant and Microbial Biology in the Rausser College of Natural Resources at the University of California, Berkeley (UCB) seeks applications for a tenure-track

Assistant Professor faculty position in fungal biology with an anticipated start date of July 1, 2024.

Our current search is for applicants with interests in teaching and mentoring the next generation of scientists, and for research on fungi at any scale, from molecules and cells to colonies and ecosystems. Interests of the department for this hire include, but are not limited to, basic biology of fungi, e.g. fungal genetics, biochemistry, development, metabolism, and ecology; mechanisms by which fungi interact with eukaryotes, e.g. in mycorrhizal fungi and other plant mutualists, and in fungal pathogens of plants or animals; interactions of fungi with bacteria or other microbes; the biology of fungal breakdown of plant material as it pertains to carbon cycling, wildfire recovery, and biotechnology applications; and other biotechnology-relevant facets of fungal biology, e.g. fungal production of secondary metabolites as drugs, fungi as seed amendments for agricultural use, and fungi as alternative food, leather, and building materials.

The department is a community of scholars whose research advances knowledge in plant and microbial systems in terms of biochemistry, cell and developmental biology, genetics and genomics, ecology, evolution, and pathogenesis, and their applications to ecosystems, agriculture, bioenergy, biomedicine, and biotechnology. Our undergraduate students have a choice of vibrant majors that span the disciplines in the department, and we administer top-ranked Ph.D. programs in microbiology and plant biology. Our researchers benefit from opportunities for interactions and collaborations with other biological science departments and units on campus, including the Innovative Genomics Institute (<https://innovativegenomics.org/>), the Energy Biosciences Institute (<https://energybiosciencesinstitute.org/>), Lawrence Berkeley National Laboratory (<https://biosciences.lbl.gov/>) and the Food Institute (<https://food.berkeley.edu/>).

The Department of Plant and Microbial Biology values diversity, equity, and inclusion as exemplified by the following principles of community: we recognize the intrinsic relationship between diversity and excellence in all our endeavors; we embrace open and equitable access to opportunities for learning and development as our obligation and goal.

The Department of Plant and Microbial Biology is committed to addressing the family needs of faculty, including dual career couples and single parents. We are also interested in candidates who have had non-traditional career paths or who have taken time off for family reasons, or who have achieved excellence in careers outside academia. For information about potential relocation

to Berkeley, or career needs of accompanying partners and spouses, please visit: <http://ofew.berkeley.edu/new-faculty> The Department and UC Berkeley use inclusive hiring practices. We encourage potential candidates to see their career accomplishments holistically, as we do, and to make the decision to apply even if they do not see their experience as conforming strictly to each of the preferred qualifications in this job description. Any candidate who is excited about fungal research and teaching/mentoring at UC Berkeley belongs on our list for consideration of our open position.

Department: <https://plantandmicrobiology.berkeley.edu/> Basic qualifications (required at time of application):

PhD (or equivalent international degree), or enrolled in PhD or equivalent international degree-granting program at the time of application.

Preferred qualifications

The ideal candidate will:

Demonstrate evidence of strong research productivity, potential for funding, and a commitment to excellence in teaching and research mentoring of undergraduate students, graduate students, and postdocs.

Demonstrate evidence of expertise and scholarship within a relevant field such as, but not limited to, basic biology of fungi, e.g. fungal genetics, biochemistry, development, metabolism, and ecology; mechanisms by which fungi interact with eukaryotes, e.g. in mycorrhizal fungi and other plant mutualists, and in fungal pathogens of plants or animals; interactions of fungi with bacteria or other microbes; the biology of fungal breakdown of plant material as it pertains to carbon cycling,

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UGeorgia EvolutionaryEcologist

Dear colleagues,

The Odum School of Ecology at the University of Georgia invites applications for a tenure-track Assistant Professor position in Evolutionary Ecology. This academic

year 9-month appointment position would begin August 1, 2024. We seek to hire a colleague whose research addresses cutting-edge questions at the intersection of ecological and evolutionary processes. We encourage applications from scientists who examine eco-evolutionary questions in natural environments, which might include freshwater, marine, or terrestrial systems. We especially welcome applications from candidates who study the evolutionary consequences of environmental change. The successful candidate will build on growing strengths in evolutionary ecology in the Odum School and could forge collaborations with faculty in other units on campus, including Bioinformatics, Crop and Soil Sciences, Entomology, Forestry and Natural Resources, Genetics, Infectious Diseases, Marine Sciences, Plant Biology, and Veterinary Medicine.

Qualifications: Ph.D. in Ecology, Evolutionary Biology, or a related field. Applicants must have expertise in evolutionary ecology, broadly defined. For example, amongst other topics, applicants could investigate how ecological agents of selection shape phenotypic evolution, feedbacks between evolution and ecology, coevolutionary dynamics, eco-evolutionary processes in the context of global changes, or life history evolution. Candidates may employ a variety of methodologies, including field, lab, genomic studies or computational techniques, and combinations of these approaches. Postdoc research experience is preferred.

Responsibilities: The faculty member will contribute to teaching courses at the graduate and undergraduate levels in evolutionary ecology and other topics based on the person's area of expertise. The successful candidate will be expected to develop an extramurally funded research program that is recognized nationally and internationally.

Application: To apply for the position, candidates should visit <https://www.ugajobsearch.com/postings/-329357> and provide these materials: (1) a cover letter; (2) curriculum vitae, (3) a research statement (3 pages maximum) highlighting contributions to evolutionary ecology; (4) a combined teaching and mentoring statement, integrating ideas and efforts that support UGA's values and enrich our missions of teaching, research, and service (<https://uga.edu/about/mission>; 2 page maximum); and (5) names and contact information for three references. Questions about the search can be directed to the chair of the search committee, Dr. Jill Anderson, at jta24@uga.edu. We will begin reviewing applications on September 18, 2023 and all applications received by that date will receive full consideration.

Georgia is well known for its quality of life in regard to both outdoor and urban activities (exploregeorgia.org).

UGA is a land and sea grant institution located in Athens, 70 miles northeast of Atlanta, the state capital (www.visitathensga.com; www.uga.edu). UGA typically ranks in the top 25 on national rankings of public research universities (<http://www.uga.edu/profile/pride-rankings/>) and Athens, Georgia is frequently ranked as one of the best places to live in the US (<https://athensclarkecounty.com/82/Accolades>).

Jill T Anderson <jta24@uga.edu>

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UGeorgia Evolutionary Insect Physiology

The position available in Insect Physiology could definitely intersect with many different fields, including evolutionary biology. We would like to attract applicants from a wide variety of disciplines, which is why we wanted to post our job ad on evoldir.

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The Department of Entomology at the University of Georgia (UGA) invites applications for a tenure-track position (9 months) in insect physiology at the Assistant Professor rank. We seek candidates with expertise in physiology, molecular biology and/or biochemistry to address fundamental or applied questions in insect biology.

The position includes research (75%), teaching (20%) and service (5%). The successful candidate will be expected to develop a nationally and internationally recognized research program supported by competitive external funding, to publish high impact research, and to effectively mentor graduate/undergraduate students. In addition to strengthening and complementing existing programs in the department, the emerging research program is expected to be collaborative and multidisciplinary with a focus on solving important or emerging problems. Particularly appealing are interdisciplinary candidates who work across molecular, cellular and organismal levels. Areas of interest include, but are not limited to vector biology of either animal or plant pathogens, insect-microbe interactions, tritrophic interactions, development and/or reproductive biology. Instructional responsibilities will include an annual graduate-level course in insect physiology rotated with an additional graduate or seminar course on

a biennial basis. This individual is also expected to be active in departmental and university service, and professional activities and outreach.

Applicants must have a Ph.D. in Entomology or a related discipline in the life sciences. Applicants should also have a record of scholarly activities in their field as demonstrated by peer-reviewed publications and/or extramural funding for their research consistent with appointment as an Assistant Professor. A minimum of 1 year of postdoctoral experience and at least 1 year of experience teaching in a classroom setting are preferred.

The Department of Entomology includes 35 faculty, 70 graduate students, 25 undergraduate entomology majors and 110 undergraduate applied biotechnology majors, with a wide range of interests from very applied to fundamental studies. We are a multi-campus environment with an excellent reputation in research, extension and teaching. The three campuses of the University of Georgia (Athens, Tifton and Griffin) are multidisciplinary, multi-agency facilities with access to well-equipped research farms throughout the state. Opportunities for collaboration within the UGA Commodity Teams and with colleagues in other departments and institutions are plentiful and encouraged. The UGA Department of Entomology is internationally recognized and committed to research, teaching and extension at local, regional, national and international levels. Our programs encompass basic and applied research on insects and other arthropods in diverse study systems.

Since our founding in 1785, the University of Georgia has operated as Georgia's oldest, most comprehensive, and most diversified institution of higher education (<https://www.uga.edu/>). The proof is in our more than 235 years of academic and professional achievements and our continual commitment to higher education. UGA is currently ranked among the top 20 public universities in U.S. News & World Report. The University's main campus is located in Athens, approximately 65 miles northeast of Atlanta, with extended campuses in Atlanta, Griffin, Gwinnett, and Tifton. UGA employs approximately 3,000 faculty and more than 7,700 full-time staff. The University's enrollment exceeds 40,000 students including over 30,000 undergraduates and over 10,000 graduate and professional students. Academic programs reside in 18 schools and colleges, as well as a medical partnership with Augusta University housed on the UGAHealth Sciences Campus in Athens.

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity,

sexual orientation or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu).

Applicants should submit the following: a letter of application, detailed curriculum vitae (25-page limit), a one-page statement of research philosophy, and a one-page statement of teaching philosophy. Applicants should also arrange for three letters of reference that address qualifications for the position. All application materials and

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UGlasgow DirectorBiodiversityFieldStation

The School of Biodiversity One Health and Veterinary Medicine at the University of Glasgow is seeking to appoint a Director for its field station, the Scottish Centre for Ecology and the Natural Environment (SCENE). The broad role of the position is to encourage, develop and support field research and teaching at this unit within the research and teaching strategies of the broader school. The position will be in the Teaching and Research job family and based at SCENE on the east shore of Loch Lomond (<https://www.gla.ac.uk/research/az-scene/>).

Appointment will be at the Senior Lecturer, Reader or Professorial level.

For more details see https://my.corehr.com/pls/uogrecruit/erq_jobspec_version-4.jobspec?p_id=125348
For informal enquiries, please contact Roman Biek (roman.biek@glasgow.ac.uk)

Barbara Mable <Barbara.Mable@glasgow.ac.uk>

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UMissouri Columbia AgingEvolGenomics

The AgeLab at the University of Missouri-Columbia is hiring a research specialist II to coordinate research in evolutionary genomics of aging. The goal of research in the AgeLab is to further our understanding of the molecular causes and correlates for the variation in the rate of aging in different environmental conditions. Using African annual killifish and fruit flies as models, the lab integrates approaches across scales of biological organization to connect the aging phenotype to underlying genomic causes. This position therefore involves generating and maintaining research animals, facilitating graduate and undergraduate research projects, and performing genomic assays. In addition, the incumbent will be responsible for lab maintenance, data management and analysis. Specifically, the incumbent will:

1. Manage research animals including breeding, feeding, monitoring the colonies, and ensuring availability of animals for research (husbandry).
2. Conduct organismal and molecular experiments involving phenotyping, isolation and analysis of intermediate phenotypes (nucleotides, metabolites, macromolecules and microbiomes)
3. Support student research and training. This includes equitable provision and coordination of common resources (animals, tissues, space, equipment, reagents, etc.) to all members.
4. Maintaining common resources and procurement of supplies in coordination with the PI.
5. Other tasks assigned from time to time.

Interested applicants should apply here: https://erecruit.umsystem.edu/-psc/tamext/COLUM/HRMS/c/-HRS_HRAM_FL.HRS.CG.SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&SiteId=-6&FOCUS=Applicant&SiteId=6&JobOpeningId=-48072&PostingSeq=1 Please email Enoch Ng'oma (ngomae@missouri.edu) with any questions. Review of applications will begin August 21, 2023 and will continue until the position is filled.

The Division of Biological Sciences at MU (<http://-biology.missouri.edu/>) has research strengths in evolutionary biology, genetics and genomics, and quantitative

biology. MU also boasts a highly collaborative research environment between departments within the life sciences (e.g., animal sciences, plant sciences, biomedical sciences, statistics, etc.). Columbia is a vibrant college town located in mid-Missouri, 2 hours from both Kansas City and St. Louis (http://en.wikipedia.org/-wiki/Columbia,_Missouri).

University of Missouri System is firmly committed to Equal Employment Opportunity (EEO) and to compliance with all federal, state, and local laws that prohibit employment discrimination on the basis of race, color, national origin, ancestry, religion, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability, or protected veteran status. This policy (Section 600.010 of the UM Collected Rules and Regulations) applies to all employment decisions including, but not limited to, recruiting, hiring, training, promotions, pay practices, benefits, disciplinary actions, and terminations.

As a government contractor, University of Missouri System is also committed to taking affirmative action to hire and advance minorities and women as well as qualified individuals with disabilities and protected veterans. About University of Missouri Mizzou is a world-renowned educational and research institution, and our first-rate faculty, staff and students are part of something big. If you're looking for a vibrant community that offers endless opportunities to grow and make a difference throughout our state, the nation and the world, our university may be the place for you.

Enoch Ng'oma |He/Him Assistant Professor 226 Tucker Hall 612 Hitt Street Division of Biological Sciences University of Missouri Columbia, MO 65211 Tel.:573-882-7993 #BlackLivesMatter

“Ngoma, Enoch” <ngomae@missouri.edu>

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UNacionalAutonomaDeMexico SystematicEntomology

Faculty Position. Systematic Entomology Institute of Biology. Universidad Nacional Autonoma de Mexico

The Universidad Nacional Autonoma de Mexico (UNAM, www.unam.mx) is the preeminent public higher-education center in Mexico, and is among the highest-ranking Spanish-speaking and Latin American universities. UNAM's Institute of Biology is a research center in the University's main campus in Mexico City. Its mission is to discover, describe and systematically document biota, conducting scientific research about the evolutionary processes that originate and maintain it, its composition, distribution and interactions, and its sustainable use. The Institute of Biology houses the National Biological Collections of Mexico, including ten zoological collections, and the National Herbarium. Its faculty include over 160 scientists and academic technicians who conduct research, teach and supervise undergraduate and graduate students, and participate in outreach activities, all to contribute to the understanding and conservation of biological diversity, and to improve scientific advancement and the well-being of society.

To fulfill its mission, the Institute of Biology seeks qualified applicants for one tenure-track position as a full-time Research Scientist (Investigador/a Asociado/a C de Tiempo Completo) in the field of Systematic Entomology, in the Department of Zoology.

CANDIDATE'S PROFILE We seek a scientist to conduct research in systematic biology (e.g., species discovery and description, classification, phylogenetic analyses), extending to the application of innovative theoretical concepts and methodological tools to investigate processes associated with their evolution above the species level (e.g., morphological diversity, species richness, distribution, evolution, diversification), with strong experience of work and development of biological collections.

REQUIREMENTS - Doctorate or Ph.D. degree in the areas of zoology, entomology, systematics or evolution. - Postdoctoral experience is preferable. - Knowledge and professional experience of at least 3 years in research in phylogenetic systematics and evolution of insects, preferably in any of the following taxonomic groups: Diptera,

Orthoptera, Psocodea, Hemiptera, Thysanoptera or Dermaptera. - Experience in field work. - Experience using or developing biological collections. - Ability to teach and supervise undergraduate and graduate students from UNAM's School of Science and Graduate Programs, as well as to participate in outreach and institutional activities. - Develop her/his own line of independent research, including procurement of funds for research, and interaction and collaboration with other research groups. - Non-native speakers must be fluent in the Spanish language. - Because this position is available through the Subprograma de Incorporacion de Jovenes Academicos de Carrera (SIJA) UNAM, aimed at incorporating early-career faculty, female applicants should be 39 years old or younger, and male applicants should be 37 years old or younger on the day of hire approved by the Consejo Tecnico de la Investigacion Cientifica (CTIC, Technical Council for Scientific Research).

APPLICATION AND SUPPORTING DOCUMENTS

To apply, please send the following documents to sacademica@ib.unam.mx, with copy (Cc:) to secacad_vl@ib.unam.mx

1. Curriculum vitae (CV), including academic degrees, publication history and experience in systematics and evolution, preferably on the aforementioned taxonomic groups.
2. Description of research conducted during at least the past 3 years (maximum 2 pages).
3. Research proposal to be developed in three years, in the context of longer research plan, focused on the systematics and evolution of any of the aforementioned groups of insects, preferably with a focus on Mexican groups (maximum 10 pages).
4. Cover letter addressed to the Director, Prof. Susana Magallon, stating the motives and interest in developing an academic career at the Institute of Biology, UNAM (maximum 2 pages)
5. Names and contact information of three persons who can provide academic references.

Applications, accompanied by supporting documents, will be received from August 4th, 2023 until the close of this call, which will be on September 29th, 2023 at 18:00 hrs (Mexico City time). Short-listed candidates will be contacted to request recommendation letters, a seminar and a personal interview.

CONTACT For any questions regarding this announcement, please contact the Office of Academic Affairs of the Institute of Biology at sacademica@ib.unam.mx and/or secacad_vl@ib.unam.mx.

Susana Magallón <s.magallon@ib.unam.mx>

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USFishWildlife ConservationGenetics

The Southwestern Native Aquatic Resources and Recovery Center has 2 vacancies for geneticists to work on conservation genetics of threatened and endangered fishes of the southwestern US. For information and applications follow the link <https://www.usajobs.gov/GetJob/ViewDetails/741272300> Geneticist

This position is a Geneticist, GS- 0440-11 working in Dexter, New Mexico for the R2-SW Native Aquatic Resources and Recovery Center.

www.usajobs.gov Thanks!

Kin

Kin-Lan Han, PhD Supervisory Geneticist (Research Unit Leader) U.S. Fish and Wildlife Service Southwestern Native Aquatic Resources and Recovery Center P.O. Box 219 Dexter, NM 88230

“Han, Kin-Lan” <kin-lan_han@fws.gov>

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USouthernCalifornia PopulationGenetics

The Molecular and Computational Biology Section of the Department of Biological Sciences, Dana and David Dornsife College of Letters, Arts and Sciences, the University of Southern California, in Los Angeles, California, (<https://dornsife.usc.edu/mcb/>) invites applications for a tenure-track Assistant Professor position.

We are seeking an accomplished and innovative experimental scientist studying biology at any scale - ranging from genomic and molecular processes, to cellular organization and function, to organismal development, to the genetic variation within populations and between species. The best candidate will excel in whatever impactful biological questions they are pursuing.

Candidates should have a Ph.D. and have demonstrated the ability to conduct independent research and to at-

tract external research funding. Review of applications will begin December 1, 2023. Applicants should submit, in a single pdf file, a curriculum vita, a cover letter, research, teaching, and diversity-equity-inclusion statements, as well as the contact information of three references. Information on USC's commitment to diversity, equity, and inclusion in the STEM fields can be found at <https://diversity.usc.edu/>. We encourage scientists who come from historically underrepresented groups or have non-traditional backgrounds to apply. In order to be considered for this position, applicants are required to submit an electronic USC application; follow this job link or paste in a browser:

<https://usccareers.usc.edu/job/los-angeles/assistant-professor-of-molecular-and-computational-biology/-1209/53260016160>. For more information, please contact Dr. Matt Dean (matthew.dean@usc.edu).

The annual base salary range for this position is \$97,750 - \$103,100. When extending an offer of employment, the University of Southern California considers factors such as (but not limited to) the scope and responsibilities of the position, the candidate's work experience, education/training, key skills, internal peer equity, federal, state and local laws, contractual stipulations, grant funding, as well as external market and organizational considerations.

USC is an equal-opportunity educator and employer, proudly pluralistic and firmly committed to providing equal opportunity for outstanding persons of every race, gender, creed and background. The university particularly encourages members of underrepresented groups, veterans and individuals with disabilities to apply. USC will make reasonable accommodations for qualified individuals with known disabilities unless doing so would result in an undue hardship. Further information is available by contacting uschr@usc.edu.

Matt Dean <matthew.dean@usc.edu>

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UTexas Austin ResTech EvolutionaryMorphology

The Kemp Lab (<http://www.kemplab.com>) seeks to hire a research technician to contribute to an NSF-funded project on the long-term stability of adaptive radiations, using the fossil record of Caribbean Anolis lizards as a

model system. The successful candidate will perform data collection on a large dataset of high-resolution X-ray chromatography (CT) scans for use in downstream analyses of morphological diversification and extinction in changing environments.

Prior experience analyzing CT data is required, with a preference for candidates who have experience using Avizo and 3D Slicer. Prior experience with natural history collections and reptile osteology is preferred but not necessary.

The Kemp Lab is actively involved in K-12 outreach, and several educational modules will be developed as part of this project. Thus, candidates with an interest in K-12 education are highly encouraged to apply.

In addition to a CV, a cover letter is required for this position and should describe the applicant's interest in the position and outline their skills and experiences that directly relate to this position. The applicant should also include contact information for 3 references.

For more information, and to apply: https://utaustin.wd1.myworkdayjobs.com/UTstaff/job/UT-MAIN-CAMPUS/Research-Engineering-Scientist-Assistant—Kemp-Lab_R_00028688 We will begin reviewing applications on September 1, 2023 until the position is filled.

Melissa E. Kemp, PhD Assistant Professor, Department of Integrative Biology The University of Texas at Austin
mkemp@austin.utexas.edu www.thekemplab.com
"Kemp, Melissa" <mkemp@austin.utexas.edu>

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WashingtonStateU EvolutionaryBiology

Washington State University, Pullman, Washington Integrative Biologist School of Biological Sciences

https://wsu.wd5.myworkdayjobs.com/en-US/-WSU_Jobs/job/Pullman-WA/Assistant-or-Associate-Professor_R-9969?q=Professor The School of Biological Sciences (SBS), within the College of Arts and Sciences at Washington State University, Pullman, Washington, invites applications from emerging scholars to join our community as permanent, full-time, nine-month (academic year), tenure-track faculty in integrative biology at the Assistant or Associate Professor level.

SBS is committed to supporting faculty as they begin and grow their careers at WSU. The successful candidate's research should address fundamental questions in organism-environment interactions by combining investigation at multiple levels of organization and/or using multiple approaches from more than one subdiscipline, possibly including (but not limited to) biochemistry and molecular biology, cell biology, comparative or functional genomics, biophysics, ecophysiology or systems/organismal physiology, ecology, behavior, or evolution (experimental or observational/comparative evolution). We are also interested in candidates who combine such approaches with sophisticated quantitative/computational methods, such as bioinformatics, machine learning, network theory, structured equation modeling, or dynamic systems modeling. The successful candidate is expected to perform hypothesis-driven research that complements current research in SBS, which spans biological scales from biomolecules to organisms to biomes. The successful candidate's research program will have the potential to stimulate new collaborations with scientists within SBS or one of many colleges within WSU. The anticipated start date is August 16, 2024.

Job Duties and Responsibilities for all ranks – . Develop and maintain an active research program in integrative biology, pursuing research questions that examine organism- environment interactions in any study system. . Develop and maintain hypothesis-driven research program using integrative experimental, theoretical, and/or analytical tools, with support from extramural funding sources. . Recruit and mentor graduate and undergraduate students. . Teach graduate and undergraduate courses in biology. . Participate in service at the department, college, and/or university level. . Advance SBS and WSU efforts to enhance diversity, equity, and inclusion among the faculty, staff and students in research, teaching, and community outreach. . The workload for this position is 40% teaching, 40% research, and 20% service.

Required Qualifications for All Candidates – . Earned PhD in biology or related discipline and 6 months of postdoctoral research experience prior to the anticipated start date. . Record of research accomplishment in integrative biology. . Effective communication skills with both students and colleagues. . Demonstrated ability to collaborate with other scientists. . Demonstrated record of or potential for commitment to inclusion, diversity, equity, and access efforts.

Additional Required qualifications for candidates for Assistant Professor rank – . Record indicating past teaching effectiveness or the potential to effectively teach undergraduate and graduate courses in biology. . Es-

Established record of peer-reviewed publications.

Additional Required Qualifications for candidates for Associate Professor rank – . Record of accomplishments in teaching, research and service commensurate with school, college, and university standards for tenure at the level of associate professor. o WSU Faculty Manual: <https://facsen.wsu.edu/documents/-2022/08/faculty-manual-2022-2023-pdf.pdf/> o CAS Tenure & Promotion Guidelines: <https://cas.wsu.edu/-faculty-staff/documents/2020/12/cas-tenure-and-promotion-policy.pdf/> o SBS Tenure & Promotion Guidelines: <https://provost.wsu.edu/documents/-2023/03/biological-sciences-promotion-and-tenure-guidelines.pdf> . Evidence of teaching excellence in undergraduate courses and the potential for, or evidence of, teaching excellence in graduate courses in biology. . Established record of peer-reviewed publications and a record of receiving grant funding as a PI and/or co-PI.

— / —

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>

WashingtonU StLouis PlantBiodiversity

Biology faculty search: Kemper Chair in Plant Biodiversity

We are seeking an eminent plant biodiversity scientist to fill the inaugural Kemper Chair in Biology, a position to be jointly held by WUSTL Department of Biology and the Missouri Botanical Garden. Would you please share this ad with your networks, on social media, etc.?

David and Dorothy Kemper Chair in Biology

The Department of Biology at Washington University in St.Louis and the Missouri Botanical Garden(MBG)seek

an eminent biodiversity scientist to fill the inaugural David and Dorothy Kemper Chair in Biology, a position to be jointly held between Washington University, where the scientist will hold a tenured position at the rank of Professor, and MBG, where the scientist will hold the position of Senior Principal Investigator. The successful candidate will have a distinguished record of research accomplishment focused on cutting-edge questions in an area of plant biodiversity science, including (but not limited to) global change, restoration, landscape, community, and population ecology; systematics; phylogenetics; population and ecological genetics; evolutionary biology and conservation biology. A doctorate in biology or a closely related field is required, as well as an outstanding teaching, service, research, and publication record commensurate with tenure at this rank.

The successful candidate will join a vibrant biodiversity community and will be expected to contribute to advising, mentoring and service; to be an outstanding teacher and to lead an externally funded and internationally recognized research program that develops synergies between the two institutions These links provide more information about the Biology Department at Washington University ([https://biology.wustl.edu/-](https://biology.wustl.edu/)), the Missouri Botanical Garden (<https://www.missouribotanicalgarden.org/plant-science/plant-science/research>) and the Living Earth Collaborative (<https://livingearthcollaborative.wustl.edu/>).

Review of applications will begin October 15, 2023. Applications will be accepted until the search concludes. Diversity, equity, and inclusion are core values of the Biology Department, Washington University and the Missouri Botanical Garden and we seek to create inclusive classrooms and environments in which a diverse array of students can learn and thrive.

Please provide a cover letter, curriculum vita, research and teaching statements, diversity statement, pdfs of three papers, and names and contact information of three references to be submitted through Interfolio (<https://apply.interfolio.com/130484>).

Living Earth Collaborative <livingearth@wustl.edu>

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CallForProposals ImproveIDEA in SMBE ExtDeadline

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. The deadline for our 2023 call for proposals has been extended until the 25th August 2023. 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>).

We look forward to hearing from you!

Ravinder Kanda

(On behalf of the SMBE IDEA committee)

Ravinder Kanda <ravinder.kanda@gmail.com>

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CostaRica CloudForest ResearchInternship

Founded in 2002, Cloudbridge Nature Reserve is a private, non-profit cloudforest reserve in the Talamanca mountains of Costa Rica. Beginning with the purchase of degraded farmland, Cloudbridge has been actively reforesting the area in order to connect the forests of Mt. Chirripí; $\frac{1}{2}$ National Park with adjacent nature reserves and forested areas. Beyond reforestation work,

Cloudbridge is also committed to environmental education and conducting research on the unique and diverse cloudforest ecosystem. With an abundance of wildlife and stunning natural beauty, Cloudbridge provides ideal conditions for ecological research. The Talamanca Mountain Range is home to many endemic species, especially of small mammals.

Cloudbridge Nature Reserve is looking for research interns to conduct studies of the ecology, flora and fauna of the cloudforest on an ongoing basis. Multiple positions available with flexible start dates, lasting a minimum of 12 weeks. This is an unpaid internship position. Training and guidance will be provided. Interns stay in one of our dormitories and share kitchen and living spaces with other interns and volunteers. Dorm rooms cost \$18 USD/night. Food costs and cooking are the responsibility of the intern. A basic diet typically costs around \$7-9 USD per day.

Qualifications - Schooling in conservation biology, wildlife or related studies, or relevant work experience. - Keen interest in the natural world. - Must be physically fit and able to hike 5-8 hours a day, 5 days a week in steep, high-altitude terrain. - Experience with Microsoft Excel. - First aid training an asset. - Good English communication skills; ability to communicate effectively, both verbally and in writing. Ability to communicate in Spanish an asset. - Must be able to commit to 12 weeks. - Minimum 18 years of age. - Able to pay for your accommodation for the duration of your stay (\$18 US/night). - Able to pay the \$200 USD good faith fee upon acceptance. This fee is credited towards the last two weeks of your stay.

Skills/Abilities - Demonstrated ability to work independently - Excellent interpersonal skills; ability to develop and maintain good relationships with others in a communal living environment - Excellent attention to detail and adherence to survey protocols - Strong time management skills - Ability to persevere and maintain high-quality work in difficult environmental and physically demanding conditions. - Demonstrate good judgement and common sense in a wilderness environment

Locations/Working Conditions Position is located in the montane cloudforest of the Talamanca mountains of Costa Rica, adjacent to Cerro Chirripí; $\frac{1}{2}$ National

Park. Survey trails are steep and at times difficult and narrow. Altitudes range between 1550 m (5085 ft) and 2200 m (7220 ft). Work hours typically between 7 am and 12 pm for field work, with 2-3 hours in the afternoon for identification and data entry. Some variation depending on survey route and survey type. Work is typically Monday-Friday, although some flexibility is possible depending on the survey schedule. Required to work outdoors under varying weather conditions.

To learn more about Cloudbridge, please visit our website at www.cloudbridge.org and check out the Volunteer/Research section (<http://cloudbridge.org/volunteering/>) for more detailed information on the research intern program.

To apply, please complete our application form at <http://www.cloudbridge.org/volunteering/volunteer-application/>. Please email research@cloudbridge.org with any questions.

Casey McConnell <casey@cloudbridge.org>

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EvolBiol StudentResearch Grants

The Society for the Study of Evolution (SSE) is now accepting applications for the GREG Rosemary Grant Advanced Awards.

These grants provide up to \$3500 US to assist students in the later stages of their PhD programs with evolutionary biology research projects. Funds can be used to enhance the scope of dissertation research, such as to conduct additional experiments or field work.

Student SSE members who will defend after September 15, 2024 and are either 1) in at least their 3rd year of a >4-year doctoral degree program 2) in the 2nd year of a 3-year program, or 3) otherwise deemed “advanced” by a letter from their advisor or graduate director, are eligible. Students should also confirm that the proposed work is outside the scope of other funding currently held by either the student or their advisor.

Guidelines for writing a proposal, instructions for how to apply, FAQs, and more are available on the website: <http://www.evolutionsociety.org/content/society-awards-and-prizes/graduate-research-excellence-grants/rosemary-grant-advanced-award.html> Deadline: October 2, 2023

*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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Frontiers SpecialIssue SkinEvoDevo

Dear eco-evo-devo community,

I would like to draw your attention on a future research topic that my colleague Anupama Prakash (University of Sheffield) and myself are organizing with Frontiers in Ecology and Evolution. This is a research topic on “Biological and Physical Basis of the Development of Integumentary Nanostructures”. You can find more details on the following website: <https://www.frontiersin.org/research-topics/54743/-biological-and-physical-basis-of-the-development-of-integumentary-nanostructures> We welcome research studies, reviews, but also preliminary and/or unpublished data that accompany a recent published article. The call for contributors is now open, and authors can submit an abstract and/or directly a manuscript for consideration. Please feel free to forward this email to colleagues who might also be interested in contributing to this special issue.

Best wishes, Cédric and Anupama

Cédric Finet, PhD National University of Singapore

Anupama Prakash, PhD University of Sheffield

“Finet, Cedric Aurelien Roland” <cedfinet@nus.edu.sg>

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LinneanSoc London NatHist FieldGrants

The Percy Sladen Memorial Fund is a charity associated with the Linnean Society of London that offers small travel & subsistence grants (up to 2000)

for fieldwork in Natural History (anthropology, archaeology, botany, geology, palaeontology and zoology). There are two application deadlines per year: 30th January and 30th September. Prospective applicants should email the fund's secretary, Elizabeth Rollinson, erollinson13@gmail.com for an application form in good time before a deadline.

Further information can be found here: [Percy Sladen Memorial Fund Grants | The Linnean Society](#) With regret, the fund does not support conference attendance, training or student studies that are part of student projects (undergrad, masters or PhD).

Prof. J.M. Pemberton Institute of Ecology and Evolution School of Biological Sciences University of Edinburgh Charlotte Auerbach Road EH9 3FL

tel 0131 650 5505

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

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

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Mentors VirtualLabMeeting

The Research Coordinated Network for Evolution in Changing Seas is excited to announce the third year of our Virtual Lab Meeting Training Program.

In this program, we seek to provide training to students at the undergraduate or graduate level (“mentees”) by matching them to a research group that shares their interests. The mentee will participate by attending lab meetings during 2023-2024. A designated mentor from the research group will dedicate portions of two lab meetings to the mentee’s professional development. The format for lab meetings dedicated to the mentee’s professional development is flexible, but could take the form of review of graduate school or grant application statements at lab meeting, research presentation at lab meeting, lead paper discussion at lab meeting, etc.

Mentors may be Faculty, Postdoctoral Fellows, or Research Associates - as long as lab meetings can be dedicated to the mentees professional development. A survey from last year indicated that this program takes less than 3 extra hours of a mentor’s time (outside lab meetings)

over the course of an academic year, while providing important professional development for the mentee.

Working in marine systems is not a prerequisite for participation in the program. If you have expertise in evolutionary biology, we hope you will consider being a mentor!

For more information: <https://rcn-ecs.github.io/-2023VirtualLabCall/> If you are a faculty, postdoc, or research scientist, please sign up to be a host-mentor by August 30 at this form: https://docs.google.com/forms/d/e/1FAIpQLScuh6_B9ABiOdNeWkE9JsYjdUoUhyHca_jyr1UfOxJgPwxTr/viewform . When you fill out the form, please enter a range of times that you are likely to have lab meetings. This will help mentees choose a time that works for them.

If you know a graduate student or undergraduate who would benefit from this program, please tell them to apply to be a mentee between Sept 1 and Sept 15. They will be able to choose their preferred mentors from those who register and the RCN will match mentors and mentees. We would greatly appreciate it if you encouraged students from underrepresented groups in our fields to apply.

K. E. Lotterhos, PhD (she/hers) Associate Professor Department of Marine and Environmental Sciences Northeastern University Marine Science Center 430 Nahant Rd Nahant, MA 01908

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

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SSE Lifetime Achievement Award CallForNominations

The Society for the Study of Evolution (SSE) invites nominations for the Lifetime Achievement Award, which recognizes individuals who have made substantial contributions to the study of evolution through conceptual advances, impactful publications, and/or outreach/education. Individuals who have demonstrated outstanding mentorship of trainees, provided noteworthy service to the evolution community, and/or contributed to the diversity and inclusion of the field will also be recognized.

The awardee will be presented at the 3rd Joint Congress

of Evolutionary Biology in Montreal, Canada, July 26-30, 2024. Recipients of this award will be invited to submit an accompanying article to *Evolution* (primary research, review, insight or commentary, fast-tracked through review and made freely available) within two months of the conference. Published articles would highlight the award obtained.

Nomination Instructions

Complete the form below with your name, the nominee's name, and two short descriptions of the nominee's contributions to the field and community. You will also be asked if you would be willing to provide a longer and more detailed nomination letter at a later date. SSE values the contributions of diverse researchers and encourages nominators to consider all potential mentors and colleagues. Self-nominations are welcome.

Nomination form: https://docs.google.com/forms/d/e/1FAIpQLSf5dK0F3G-64h9nLXfjGimyzqX1fJWYqL1PjxyUnyQq-3nfQ/-viewform?usp=sf_link Deadline: September 30, 2023

View past recipients of the award: <http://www.evolutionarysociety.org/society-awards-and-prizes/lifetime-achievement-award.html> Learn more about SSE: <http://www.evolutionarysociety.org/> *Kati Moore*she/her *Communications Manager* *Society for the Study of Evolution* communications@evolutionarysociety.org www.evolutionarysociety.org communications@evolutionarysociety.org

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TimeTreeOfLife Contributions

We are the editors of the recently launched research collection, 'Completing the TimeTree of Life'. If you're an evolutionary biologist considering publishing phylogenetic research, we hope this call for papers will give you an opportunity to publish your most recent work with us. Additionally, if you have any colleagues or students building timetrees of any scale and in any system, we welcome their contributions as well.

In addition to original phylogenies containing divergence time estimates from sequence data using sophisticated relaxed-clock methods, such as RelTime or Bayesian approaches, we are also considering descriptions of new methods, reviews, and perspectives pertinent to con-

structing and timing phylogenies.

You can read more about the collection here: <https://www.frontiersin.org/research-topics/57657/-completing-the-timetree-of-life> If you are interested in taking this opportunity to publish your work, please click "participate in this topic".

We believe your insight will be a great addition to this topic, and in the face of a global biodiversity crisis, your work is more valuable than ever! We look forward to hearing more about your latest research.

Why publish in our Research Topic? Alongside a top group of authors, your work will be published in *Frontiers in Bioinformatics*, an upcoming journal in the field. The deadline for submission is December 12 2023, but *Frontiers'* fast-track review process, led by my editorial team, means each article is published online as soon as it's been successfully peer-reviewed and accepted (typically within 61 days). As an open access journal, publishing fees are applied to accepted articles. Please contact bioinformatics@frontiersin.org to discuss fees, institutional waivers, and discounts.

Best regards, Jack M. Craig, Research Assistant Professor of Biology at Temple University

S. Blair Hedges, Laura H. Carnell Professor of Biodiversity at Temple University

Beatriz Mello, Associate Professor at Federal University of Rio de Janeiro

Thanks,

Jack Craig

Jack Craig <jack.craig@temple.edu>

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UOulu Finland VisitingFellowships Spring2024

VisitANTS Fellows Programme: Critical Biodiversities: Understandings of Loss, Life and Conflict

University of Oulu, Finland Spring Semester 2024 Call for Applications: <https://www.oulu.fi/en/news/-visitants-fellowship-round-3> The University of Oulu's Biodiverse Anthropocenes research programme is pleased to invite applications for its Spring 2024 cohort of VisitANTS Fellows.

VisitANTS is an innovative residential research fellowship programme. Up to ten selected visiting fellows will work in residence at the University of Oulu for between one and five months during the Spring 2024 semester (15 January to 15 June 2024). Fellowships are open to scholars across all disciplines (including but not limited to natural, social sciences and humanities fields) holding a PhD and carrying out research on biodiversity, environmental change, and their societal responses. Selected fellows will be based in Oulu for the duration of their fellowship and will engage in their own research and writing work, while actively contributing to Biodiverse Anthropocenes' transdisciplinary activities comprising regular colloquia, workshops, guest lectures and more. The programme provides a stimulating environment for pursuing research, writing publications and funding applications, and building new scholarly connections. All fellows are offered a shared work environment and full access to university libraries and research facilities, and receive a fixed grant (EUR 2000/month) to cover basic living costs in Oulu (e.g. food, accommodation).

The thematic focus for Spring 2024 is Critical Biodiversities: Understandings of Loss, Life and Conflict, and applicants are encouraged to demonstrate how their proposed research or writing work relates to this theme. We also encourage applicants to identify potential collaborators already based at the University of Oulu. Please note that this fellowship is not intended to fund field-work/research trips or conference attendance.

The deadline for applications is 15 September 2023. Please see more programme details, or visit our Frequently Asked Questions (<https://www.oulu.fi/en/news/visitants-faqs>). To apply, please fill out the online application (<https://link.webropol-surveys.com/Participation/Public/25710559-fc7f-461a-82d8-a9ea4408dd8a?displayId=Fin2848892>). For any questions, contact ANTS Coordinator Carolina de la Rosa: carolina.delarosa@oulu.fi.

Marko Mutanen <Marko.Mutanen@oulu.fi>

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ArizonaStateU PrimateEvolution

Postdoctoral position in primate evolution and population genetics / genomics at Arizona State University

The Pfeifer Lab at Arizona State University is looking for a postdoctoral researcher to study questions related to primate evolution and population genetics / genomics currently funded by NIH MIRA (2023-2028) and NSF CAREER (2021-2026) awards. Research in the lab focuses on (i) gaining a better understanding of the molecular and genetic differences that underlie species-specific traits and heritable disease, (ii) the evolutionary processes that explain the accrual, and fate, of these differences, and (iii) the impact of these processes on genome evolution. Our work uses a combination of genomic tools and population genetic modeling and is performed in partnership with external collaborators at the primate research centers and colleagues working at the forefront of computational methods development.

Research topics are open to discussion and mutual interest though should align with the overall interests of the lab and focus on the analysis of cutting-edge genomic data, theoretical and computational population genetic method development, as well as the implementation of population genetic simulations. The ideal applicant will have a strong computational, mathematical, and/or statistical background along with a genuine interest in comparative genomics and primate evolution. Prior experience with large-scale genomic data and strong analysis skills - including proficiency in a programming language/shell, theoretical and computational population genetics, and/or statistical modeling experience - are beneficial. Applicants should have good organizational skills and enjoy working in a collaborative and interdisciplinary team.

The Pfeifer Lab offers a supportive and stimulating work environment with excellent opportunities for training and collaboration. The Lab is based in the School of

Life Sciences and is associated with both the Center for Evolution and Medicine (<https://evmed.asu.edu/>) and the Center for Mechanisms of Evolution (<https://biodesign.asu.edu/mechanisms-of-evolution/>). The lab has strong intellectual ties - including lab meetings, seminars, and journal clubs - with the local evolutionary/population genetics, primate genomics, and computational biology research communities (<http://asupopgen.org/>).

Appointments will initially be offered for one year, with extension contingent on performance. The start date is flexible.

Interested? Contact Susanne Pfeifer <susanne@spfeiferlab.org> for informal inquiries, and/or to send an application (including a CV, names of 3 references, and a cover letter describing your interests and fit for the position). The evaluation of applications will begin Sep 1, and will continue until a suitable candidate has been found.

Susanne Pfeifer Associate Professor School of Life Sciences Arizona State University

“susanne@spfeiferlab.org” <susanne@spfeiferlab.org>

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AuburnU
EvolutionaryQuantGenetics

Postdoctoral Position in Evolutionary Quantitative Genetics at Auburn University

The Wolak Research Group (<https://qgevoeco.com>) at Auburn University (<https://www.auburn.edu/-cosam/departments/biology/biology-faculty/wolak/-index.htm>) is hiring a Postdoctoral Research Associate to develop projects addressing key outstanding questions in evolutionary quantitative genetics. The postdoc will be part of a NSF funded project over the next 4 years that will assemble a team of high school, undergraduate, and graduate researchers as well as a laboratory technician to collaborate on the project. The research group studies the link between evolutionary change and ecological processes acting upon variability among individuals in survival and reproduction and hence population growth, persistence, and structure. We measure natural and sexual selection, the quantitative genetic basis to trait variation, and population demography to quantitatively predict ecological and evolutionary dynamics. We also develop statistical methods and software.

We are seeking a postdoc to work on the project Empirical Tests of the Fundamental Theorems of Evolution and Natural Selection: The postdoc will be responsible for development and testing of theory for the evolution of fitness using a combination of simulation, artificial selection, experimental evolution, and/or large scale mating designs with laboratory populations of seed beetles (*Callosobruchus maculatus*).

The main focus of the initial appointment will be empirical data analyses to test evolutionary theory. Beyond this there are opportunities for the postdoc to expand along many possible avenues - including current laboratory experiments, theory development, simulations, and analyses. The postdoc will be expected to assist with training graduate students, develop synergistic projects, write grants, and produce first authored papers and contribute to co-authored papers. Persons from groups typically under-represented in science are strongly encouraged to apply.

Required: - A Ph.D. in an appropriate field (including but not limited to evolution, ecology, genetics) at time of hire - A demonstrated track record of creative,

high-impact research - The ability to work in a dynamic, collaborative environment with graduate and undergraduate students - A strong quantitative background - Excellent communication, organizational, and leadership skills.

Preferred: - Expertise in quantitative genetics - Experience developing theory, statistical methods, or mathematical and individual-based models

Availability: We are looking for someone to start as soon as possible. Consideration of applications and subsequent interviews will begin August 28, 2023 and continue until the position is filled. Interested persons should submit their application materials before this date to receive full consideration. This is a one-year, full-time position with the possibility of renewal for a total of 2.5 years, pending satisfactory work and availability of funds. The postdoc will also benefit from AU fringe benefits and access to conference travel funds within the Wolak Research Group. Additional group funds for independent projects are available upon submission of a written proposal.

If interested, please email the following materials to Matthew Wolak (matthew.wolak@auburn.edu): - 1) a current CV with contact information for three references - 2) a 2 page statement of interest in this opportunity with descriptions of relevant skills and experience - 3) no more than 3 PDFs of relevant publications or manuscripts in preparation

The Department of Biological Sciences at Auburn University is a highly collaborative and friendly place to work. In combination with efforts in the College of Sciences and Mathematics, we have strong support and mentoring for our postdocs and are committed to improving diversity and inclusivity within our Department and College. AU runs several high performance computing clusters (<https://hpc.auburn.edu/hpc/index.php>) and we also have access to use the Alabama Supercomputer (<https://www.asc.edu/>).

Auburn is a Tier 1 research institution with great facilities and research support. The university is situated in the quintessential college town of Auburn, Alabama and is located close to several major cities (e.g., Atlanta and Birmingham are 1.5 and 2 hour drives, respectively), the beaches along the Gulf and Atlantic coasts, and the Appalachian Mountains. Auburn graduate students enjoy a thriving community, recognized as one of the "best small towns in America," with moderate climate and easy access to major international airports.

This announcement is informal in nature and the selected candidate must

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Bialowieza Poland EuropeanBisonEvol

We seek an evolutionary biologist for a Post-doc position within a grant 'Historical morphometrics of the European bison skulls and its association with species inbreeding increase'. The project will be realized at the Mammal Research Institute, Polish Academy of Sciences, BiaÅ³owieÅa, Poland.

The summary and objectives of the project:

European bison is a species of unique demographic history. It has been through an extremely severe bottleneck in the 1920s. The whole contemporary population originates from a meager group of founders. Just two of them turned out to be predominant, and their share in the contemporary gene pool is above 80%. The effects are extremely low genetic variation (Wójcik et al., 2009; Tokarska et al., 2009; Tokarska et al., 2011) and highly increased inbreeding level, reaching 75% (Pertoldi et al., unpublished). Although increased inbreeding is regarded as an important factor affecting the viability of a population, resulting in lowered genetic differentiation and decreased fitness, its impact on the European bison seems milder than might be expected. Long term fertility coefficients are stable and satisfactory (KraÅiÅska i KraÅiÅski, 2017) and no indisputable inbreeding depression symptoms are observed (Tokarska et al., 2011). The reported potential inbreeding depression symptoms are related to skeleton conformation. Baranov et al. (1997) reported signs of developmental instability of skull morphology in the European bison skulls and indicated developmental instability as essential for characterizing the condition of the population. Analyses of fluctuating symmetry of the European bison, associated with genetic diversity (Makowiecka, 1994) suggest that the BiaÅ³owieÅa line of the European bison had the lowest, unbeneficial, developmental instability as the result of inbreeding. Until recently, the only method of estimating inbreeding level was pedigree analysis - a rough and inaccurate method. The development of genomic techniques enables precise calculation of inbreeding level using high density SNP (single nucleotide polymorphism) set. This method has been successfully used in the European bison studies and allowed for the first, accurate

inbreeding calculations, using ROH (Runs of Homozygosity) analyses (Iacolina et al., 2016, Pertoldi et al., unpublished) This project enables the actual effect of extreme inbreeding on skull conformation in a historical context to be estimated, by association of genomic and morphometric data in one of the most inbred mammals known - the European bison. We will use hundreds of 3D skull scans from European collections and museums and juxtaposition them with their inbreeding level information based on SNP markers. The objective of the project is to specify whether and in what extent inbreeding level shaped the skull conformation of European bison individuals by answering three questions: Has the morphometry of the skull fluctuated over time? Has the growing inbreeding of the European bison influenced its skull morphometry? If yes, what morphometric skull features have been affected by growing inbreeding? The working environment Mammal Research Institute, Polish Academy of Sciences (MRIPAS) in BiaÅ³owieÅa, funded in 1952, conducts research in the field of ecology, ethology, morphology, population genetics as well as population management and conservation of mammals and other terrestrial vertebrates. The mission of the Institute is to acquire, advance, and disseminate knowledge of natural patterns and processes in order to improve the scientific basis for effective nature conservation activities and sustainable development. We focus mainly on BiaÅ³owieÅa Primeval Forest (UNESCO Biosphere Reserve and World Heritage Site) as a study area, but also on other regions of Poland and Europe. The Institute employs 60 people, including researchers, PhD students, and qualified technical and office staff.

We provide:

1. 4-years contract;
2. Work in a friendly research team, in a well-equipped and organized laboratory with support and supervision of competent colleagues;
3. The possibility of effective scientific development through cooperation with the best world research centres;
4. Participation in an interesting scientific project with travelling opportunities;
5. The possibility to apply for inexpensive accommodation in MRI PAS flats.

Post-doc tasks and duties within the project

1. Writing scientific papers and participating in relevant conferences and workshops.
2. Supervising PhD students.
3. Performing genome-wide association analysis based on the genomic data and morphometrical measurements

on European bison skulls, preferably using GoldenHelix or Plink softwares.

4. Visualisation of the data, presenting results and preparing manuscripts.

Requirements:

1. PhD in bioinformatics or genomics.
2. Experience in bioinformatic research, experience in Plink or

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BIOPOLIS-CIBIO Portugal Evolutionary Genomics

RESEARCHER POSITION ON EVOLUTIONARY GENOMICS AT CIBIO-INBIO, BIOPOLIS, PORTUGAL

Application deadline: 15 September 2023. MAIN RESEARCH FIELD: Biological Sciences, Evolutionary Genomics Reference: BIOPOLIS 2023-54 Job posting and application at <https://www.cibio.pt/?p=10>

JOB DESCRIPTION: BIOPOLIS/CIBIO (<https://cibio.up.pt/en/> , <https://www.biopolis.pt/en/>) is seeking a highly motivated post-doctoral Junior Researcher in the area of Evolutionary Genomics, under a non-fixed term work contract with an expected duration of 2 years. The Researcher position is integrated in the Group EVOCHANGE, Genomics of Evolutionary Change (<https://cibio.up.pt/en/groups/genomics-of-evolutionary-change-evochange/>). The main aim is to use genomic sequencing data to infer evolutionary processes in natural animal populations, such as the genetic basis of traits, local adaptation or introgressive hybridization. The work plan consists of the following tasks: processing and analysing whole-genome DNA sequencing data, along with other types of genetic data such as from reduced representation libraries or RNA-sequencing, using cutting edge analytical tools; creating predictive models of evolution under scenarios of climate change; providing support for bioinformatics analyses; managing genomic data; and managing computational resources for genomic data analysis.

WORKPLACE: The workplace is BIOPOLIS/CIBIO - Centro de Investigaçao em Biodiversidade e Recursos

Genéticos, Rua Padre Armando Quintas n.º 7 | 4485-661 Vairao, PORTUGAL. BIOPOLIS/CIBIO's mission is to develop world-class research in the area of biodiversity, advancing knowledge on the origins and maintenance of biodiversity, and applying this knowledge to address societal challenges related to climate and land use changes, environmental degradation, the loss and sustainable use of biodiversity and agrobiodiversity, and the management, restoration and sustainable use of ecosystems and their services. BIOPOLIS/CIBIO has 196 researchers with a PhD, which are based in several universities and research institutes across Portugal and in one University in Angola. There are 34 research groups, which are organised in three thematic lines on 1) Evolution, Genetics & Genomics, 2) Biodiversity, Ecology & Conservation, and 3) Sustainability, Ecosystems & the Environment. These research groups focus their activity on biodiversity and ecology, evolutionary biology and applied ecology, and integrate experts in complementary fields, such as molecular and population genetics, phylogeography, population biology, immunogenetics, taxonomy, ecology, functional biology, bioinformatics and computational biology, landscape management and conservation.

TENDER ADMISSION REQUIREMENTS: Application can be submitted by any national, foreign, and stateless candidate(s) holding a doctorate degree in Biology and related areas, and a scientific and professional background that aligns with the specific activities described below (item 7). In case the doctorate degree was awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018 of 16 October, and all formalities established therein must be complied with at the signature of work contract. Specific requirements are: i) Experience in research in evolutionary genetics and genomics; ii) Experience in using bioinformatics tools to analyse genomic DNA variation data, from population genomics to phylogenomics; iii) Experience in publishing papers in indexed international peer-reviewed scientific journals; iv) Experience in evolutionary and ecological modelling simulation frameworks is valued; v) Experience in managing and using genomic data and computational resources is valued.

WORK CONTRACT: Non-fixed term work contract with expected duration of 2 years.

SALARY: Monthly remuneration to be paid is that set by subheading a) nr.1 article 15 of RJEC and article nr 2 of the Regulatory Decree nr. 11-A/2017, corresponding to level 33 of the Tabela Remuneratoria Anica, approved by Order no. 1553-C/2008 of December 31st, i.e., 2228.11 Euros.

HOW TO APPLY: <https://www.cibio.pt/?p=10> (where instructions and selection procedures are detailed). The call for applications is open until 15 September 2023. Expected starting date: 1st November 2023

Informal inquiries can be made to José Melo-Ferreira (jmeloferreira@cibio.up.pt).

José Melo-Ferreira <jmeloferreira@cibio.up.pt>

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CarletonU Bioinformatics MountainPineBeetle

Dear EvolDir community,

We are seeking a Bioinformatician/PDF to work on the TRIA-FoR project < <https://tria-for.ualberta.ca> > (Grant-Funded Opportunity)

Duties and Responsibilities

The Bioinformatician's key role will be to develop and apply bioinformatics solutions to genomics research conducted by the TRIA-FoR project, a national scale, multidisciplinary network of researchers led by Carleton University and the University of Alberta. The bioinformatician will be located at Carleton University, and they will investigate resiliency and risk in the context of mountain pine beetle-climate interactions by linking genomics with quantitative genetics, population genetics, physiology, phenomics and spread risk modelling.

Key responsibilities include, but are not limited to:

1. Development and application of bioinformatic solutions to solve unique problems related to TRIA-FoR pine and mountain pine beetle research
2. Management of project databases, shared datasets, and shared analysis pipelines and documentation meeting high standards of research reproducibility and transparency
3. Active analysis as well as the training of others in:
 - * Sequence analysis
 - * Genome annotation
 - * Gene expression and gene network analysis
 - * Population genetics
4. Collaboration with TRIA-FoR researchers working in molecular biology, landscape genomics, population genetics and computational MPB spread risk modelling
5. Opportunity to prepare and publish findings using integration of genomics, landscape genomics, physiology and population genetics
6. Participate in the supervision of undergraduate and graduate students, post-docs, and other project members
7. Presentation of key findings

and takeaways for project members, as well as project collaborators, stakeholders, and end-users

Qualifications

Required:

The candidate must have a PhD in the biological sciences or closely related field (e.g. Resource Management, Forestry, etc.), with documented experience in bioinformatics or related statistical and computational biology, custom bioinformatics pipeline development, scripting, and R analyses.

- * Demonstrated conceptual and practical knowledge and skills in genomics, de novo transcriptome assembly, population genetics and genomics, comparative genomics, and genome evaluation
- * A strong commitment to team-based processes and outcomes
- * Excellent written and oral communication and interpersonal skills; active support of the Carleton University code of conduct
- * Ability to work independently and maintain motivation during long-term analyses, and when facing bioinformatic challenges that require problem solving
- * Ability to determine and manage resource requirements
- * Demonstrated ability to take responsibility for a work area within a multi-disciplinary research team
- * Ability to work well under pressure to meet deadlines
- * A demonstrated commitment to organization and adherence to best practices of documentation and data management related to complex projects

Other desired qualifications include:

A background in scientific fields related to the project is considered an asset, including but not limited to forest biology, forest management, entomology, and ecology.

- * Experience working with genomic resources for conifers or other non-model systems
- * Previous work within the conifer computational biology community
- * Working knowledge of Unix based systems
- * Comfortable with high-performance computing especially the Canadian Alliance clusters
- * Scripting in Python and R

Job details:

The position is available immediately, and the salary will range from \$55-60K per annum with benefits, based on experience. The term of the position will be for one year, with the potential to extend the term for a second year. Applications will be accepted until the position is filled.

If you are interested in this position, please send your CV and cover letter to catherine.cullingham@carleton.ca. In your cover letter, please address how your experience meets the qualifications of the position.

This email contains links to content or websites. Always

be cautious when opening external links or attachments. Please visit <https://carleton.ca/its/help-centre/report-phishing/> for information on reporting phishing messages.

When in doubt, the ITS Service Desk can provide assistance. <https://carleton.ca/its/chat> Rhiannon Peery <RhiannonPeery@cunet.carleton.ca>

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DeakinU AvianEvoDevo

Postdoctoral Research Fellowship is now available researching the evolution of developmental processes controlling the avian clock.

The position is a fixed-term position for 3 years full time, with part-time options negotiable Start date around 1st January 2023 Level A AUD\$74,024-AUD\$99,512 + 17% Superannuation open to Australian and non-Australian citizens

The position is based Deakin University, Geelong Victoria Australia working with Professor Kate Buchanan (Deakin University, Australia) and Associate Professor Fri₂di₂ric Gachon (University of Queensland)

This role is part of a research project focusing on the role of light/dark cycles in programming the development of birds. The Associate Research Fellow will lead a program of research testing the environmental cues used by wild birds to time hatching and reproduction. The first part of the project will be desk-based research and will involve compiling and analysing a global database on the timing of hatching in wild birds. In the second part of the project, the postdoc will gather empirical data to test the role of latitude in driving reproductive timing and physiology in wild zebra finches.

To do this, the postdoc will travel to remote locations in central Australia for fieldwork catching birds at a range of different field sites and transporting the birds back to captive holding. On campus, the project also involves monitoring the timing of reproduction in these captive breeding populations. Finally, the postdoc will assess the timing and drivers for reproductive timing by quantifying the onset of clock gene expression in avian embryos and the role of clock gene cycles in mediating reproduction in reproductively active adult birds.

To apply and for a position description please visit

<https://careers.pageuppeople.com/949/cw/en/job/-544601/associate-research-fellow> For more details please contact Kate Buchanan (kate.buchanan@deakin.edu.au)

Key selection criteria for this role:

PhD in a relevant discipline and/or other relevant qualifications and experience

- Emerging research and scholarship through publications, and/or exhibitions as appropriate to the discipline
- Capacity to contribute to research and carry out relevant administration
- Excellent interpersonal skills to establish good working relationships with colleagues and landowners
- Ability to make a contribution to community engagement for research
- Competence in database compilation, management and statistical analyses including phylogenetic analyses
- Experience of remote fieldwork, mistnetting experience, molecular techniques, genomic analyses, behavioural or physiological assays are desirable, but not essential
- An bird banding licence would be advantageous

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Kate Buchanan <kate.buchanan@deakin.edu.au>

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Ferrara Ancona Italy Two YellowBelliedToadPopGenomics

— Ferrara_Ancona_Italy_Two.YellowBelliedToadPopulationGenomics

Two one-year postdoc positions (renewable for a second year) are available in Giorgio Bertorelle and Emiliano Trucchi research groups at the University of Ferrara (Italy) and Marche Polytechnic University (Ancona, Italy), respectively.

Both postdocs will work together on a recently funded project which will be carried out between the two research groups and in collaboration with University of Florence and Tuscia (Italy).

Using as a model an Italian endangered endemic species (the Apennine yellow-bellied toad, *Bombina pachypus*)

that expanded northwards along the peninsula after the last glaciation, and an individual-based spatially explicit simulation model, the main scope of this project is to study the genomic consequences of a successful postglacial expansion inferring the major characteristics of this process and predicting the impact of geographic range expansions over different temporal scales.

The first position (@ Marche Polytechnic University) will be mainly devoted to the analyses of target capture genomic data to estimate differential loss of genetic variation and accumulation of deleterious mutations along the yellow-bellied toad expansion route (i.e., expansion load).

The second position (@ the University of Ferrara) will mainly focus on developing a realistic simulation model (i.e., using SLim) capable of generating genomic patterns compatible with those observed in the real system.

Both postdocs will use the realistic simulation model to understand how the rate of climate change and the velocity of the species in colonising new suitable habitats affect the expansion load and thus the probability of success of the colonisation.

Applicants' selection will be in November-December 2023 and the ideal starting date between January and February 2024. Net salary will be ca. 1600 EUR/month (which is in line with the costs of living in small-medium sized towns like Ferrara and Ancona).

Get in touch with Giorgio Bertorelle (ggb@unife.it) and Emiliano Trucchi (e.trucchi@univpm.it) for further information.

Emiliano Trucchi Department of Life and Environmental Sciences Marche Polytechnic University Via Breccia Bianche, 60131, Ancona, Italy www.emilianotrucchi.it EMILIANO TRUCCHI <e.trucchi@staff.univpm.it>

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Frankfurt

FruitBatsComparativeGenomics

Job Announcement ref. #12-23005

Postdoc Position in Comparative Genomics in Fruit Bats

The Hiller Lab at the LOEWE Center for Translational Biodiversity Genomics (TBG) in Frankfurt, Germany

is looking for a Postdoc to investigate the genomic underpinnings of convergent dietary adaptations in bats.

The Project While most bats feed on insects, several independent lineages adapted to fruit- or nectar-based diets that are rich in sugars. In contrast to humans, where a sugar rich diet is a major risk factor for metabolic diseases, these bats have metabolic and physiological adaptations to such highly-specialized diets. The postdoc will capitalize on more than 15 already-existing new bat genomes sequenced in the lab with HiFi and HiC, comprehensive comparative RNA-seq datasets and our powerful genomic methods repertoire (e.g. TOGA [1]) to comprehensively discover the genomic basis of adaptations to sugar-rich diets in bats (see [2] for a similar example in hummingbirds). The project aims at providing novel insights into fundamental questions concerning (i) the contribution of gene-sequence vs. gene expression changes and (ii) the importance of convergent vs. lineage-specific molecular changes for phenotypic convergence.

Our lab The mission of our group is to understand how nature's fascinating phenotypic diversity has evolved and how it is encoded in the genome. Work in the lab includes sequencing and assembly of reference quality genomes, genome alignment and gene annotation, development and application of comparative genomic methods to discover differences in genes and gene expression, and the use of statistical approaches to link phenotypic to genomic changes [1-10].

Our lab is part of TBG (<https://tbg.senckenberg.de/>) and the Senckenberg Society for Nature Research (<http://www.senckenberg.de>), and is based near the city center of Frankfurt am Main, Germany. TBG provides access to cutting-edge computational (large HPC clusters, genome browser) and lab infrastructure to sequence genomes. English is the working language in our lab. Senckenberg and TBG provide flexible working hours, an annual special payment, a company pension scheme, the Senckenberg badge for free entry in museums, the zoo, botanical garden and Palmengarten, and a leave of 30 days per year. Frankfurt is a vibrant and highly-international city at the heart of Europe that combines a skyscraper skyline with ample park and green areas. The Economist 2022 index ranked Frankfurt among the top 10 most livable cities worldwide.

Your profile - PhD degree in bioinformatics/computational biology, genomics or a related area - Solid programming skills in a Linux environment and experience with shell scripting and Unix tools are required - Previous experience in comparative genomics is an advantage

- Place of employment: Frankfurt am Main - Working

hours: full time (40 hours/week) / part-time options are available - Type of contract: initially limited for 2 years, but funding is available for an extension - Salary and benefits: according to the collective agreement of the State of Hesse (pay grade E13) - The start date is flexible but should ideally be in the beginning of 2024.

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. 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.

How to apply Please send us your application documents containing - a CV with publication list and contact information for at least two references - a summary of previous research experience (max 1 page) - and copies of certificates, transcripts and grades) in electronic form (as a coherent PDF file) by October 8th 2023 to recruiting@senckenberg.de and Prof. Dr. Michael Hiller michael.hiller@senckenberg.de quoting the reference number #12-23005, or apply through the online application form on our homepage.

Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt a.M. E-Mail: recruiting@senckenberg.de For more information please contact Prof. Dr. Michael Hiller, michael.hiller@senckenberg.de or visit the lab webpage <https://tbg.senckenberg.de/-hillerlab/> . Recent publications

[1] Kirilenko BM, et al. Integrating gene annotation with orthology inference at scale. *Science*, 380(6643), 2023 [2] Osipova E, et al. Loss of a gluconeogenic muscle enzyme contributed to adaptive metabolic traits in hummingbirds. *Science*, 379(6628),

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FredHutchinsonCenter Washington
ComputationalBiology

Mahan Postdoctoral Fellowship

The Herbold Computational Biology Program of the Fred Hutchinson Cancer Center in Seattle, Washington invites applications for the Mahan postdoctoral fellowship. The fellowship will provide an exceptional individual with an early start on their career as an independent scientist by providing a 21-month stipend to pursue their proposed research project in the laboratory of a Fred Hutch Computational Biologist mentor.

Faculty of any discipline or rank from the Fred Hutch, UW, or any other institute may be proposed as co-mentors. The project must be focused on a topic of biological interest, must involve a computational or mathematical component, and may include an experimental component. A laboratory trained scientist may satisfy the computational and mathematical requirement by including a training component in their proposal. Computationally strong candidates may include a laboratory training component as well. The research direction should reflect the interests and ideas of the applicant, although the final research proposal may be jointly designed; see Additional Information for more details on the application process and for a list of potential mentors.

Fred Hutchinson Cancer Center is an independent, non-profit organization providing adult cancer treatment and groundbreaking research focused on cancer and infectious diseases. Based in Seattle, Fred Hutch is the only National Cancer Institute-designated cancer center in Washington.

With a track record of global leadership in bone marrow transplantation, HIV/AIDS prevention, immunotherapy and COVID-19 vaccines, Fred Hutch has earned a reputation as one of the world’s leading cancer, infectious disease and biomedical research centers. Fred Hutch operates eight clinical care sites that provide medical oncology, infusion, radiation, proton therapy and related services, and network affiliations with hospitals in five states. Together, our fully integrated research and clinical care teams seek to discover new cures to the world’s deadliest diseases and make life beyond cancer a reality.

At Fred Hutch we value collaboration, compassion, determination, excellence, innovation, integrity and respect. These values are grounded in and expressed through the principles of diversity, equity and inclusion. Our mission is directly tied to the humanity, dignity and inherent value of each employee, patient, community member and supporter. Our commitment to learning across our differences and similarities make us stronger. We seek employees who bring different and innovative ways of seeing the world and solving problems. Fred Hutch is in pursuit of becoming an anti-racist organization. We are

committed to ensuring that all candidates hired share our commitment to diversity, anti-racism and inclusion.

Please direct all questions to Ruby Mae San Pedro, Computational Biology Research Administrator.

Qualifications

Ph.D. must have been awarded after June 2021 in a computational, quantitative or biological discipline. Ph.D. must be awarded prior to the start of the fellowship. Applicants who have held faculty or scientific staff positions are not eligible. Fred Hutch Internal applicants - Start date at Fred Hutch must be within 12 months of the pre-application deadline.

Application Instructions

Please apply at: <https://apply.interfolio.com/130340>
Kendall Kochmer Pronouns: He/Him Recruiting Program Coordinator Fred Hutchinson Cancer Center O - 206-667-2612 kkochmer@fredhutch.org

kkochmer@fredhutch.org

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IndianaU MutationRateEvolution

Postdoc: Evolution of mutation rates, Hahn Lab, Indiana University

An NIH-funded postdoctoral position is available in the lab of Matthew Hahn in the Department of Biology and Department of Computer Science at Indiana University, Bloomington. The work will address the developmental origin and evolution of de novo mutations, using rhesus macaque as a focal species. Our lab has studied mutation rates across mammals, and this project aims to look more closely at which developmental stages drive differences in mutation rates between species. The postdoctoral candidate will also be encouraged to carry out independent work.

There is a wide variety of research going on in the lab in addition to the current project. For a summary of our work, please see: <https://hahnlab.sitehost.iu.edu/>

Indiana University has an active group in evolutionary genetics, and considerable computational resources. Bloomington is situated in scenic, hilly southern Indiana, near several parks and wilderness areas. The cultural environment provided by the University is exceptionally rich in art, music, and theater.

Indiana University is an Equal Employment and Affirmative Action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status national origin, disability status, or protected veteran status.

The candidate must have a Ph.D., preferably in genetics, population genetics, statistical genetics, or computer science. The position will require the candidate to develop strong computational skills, but motivated scientists who wish to learn these skills are encouraged to apply.

To apply, please submit (i) a letter of application, (ii) a full CV, (iii) a brief statement of research interests, and (iv) contact information for three references electronically to <https://indiana.peopleadmin.com/postings/-19856>. Review of applications will start 10/1/2023 and will continue until the position is filled. Start date is approximately 1/1/24. Inquiries about the position can be directed to Matthew Hahn (mwh@indiana.edu; 812-856-7001; 1001 E. 3rd St., Bloomington, IN 47405).

Matthew Hahn (he/him) Distinguished Professor Department of Biology and Department of Computer Science Indiana University 1001 E. 3rd St. Bloomington, IN 47405 <https://hahnlab.sitehost.iu.edu/> "Hahn, Matthew" <mwh@indiana.edu>

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INRAE France ForestTreeGenetics

Dear all,

We are seeking a highly motivated candidate with a solid background in forest tree molecular ecology for a two-year postdoctoral fellowship that we are applying for at the French National Institute for Agronomy, Food and the Environment (INRAE). Our research project focuses on the demography, mating and gene flow of an isolated population of European beech (*Fagus sylvatica*) growing in a long-term climatic refugium in SW France. The planned research aims (i) to reconstruct the demographic expansion of this population since its putative bottleneck during the Last Glacial Maximum, and (ii) to examine how its present-day mating and gene flow patterns are affected by its refugial habitat (the gorges of a small lowland river). The beech stand has been exhaustively mapped and been subject of extensive

field studies. High-quality SNP genotyping data for the entire adult population (n ≈ 1000 trees) as well as for the progenies of 80 mother trees are readily available for analysis. We are looking for a candidate with strong experience in modern population genetic analyses and the willingness to develop her/his skills in other aspects. Previous experience with paternity analyses will be an important plus.

The postdoctoral researcher will be hosted at the Mixed Research Unit BIOGECO, a joint centre of INRAE and Bordeaux University dedicated to forest and biodiversity research (https://www6.bordeaux-aquitaine.inrae.fr/biogeco_eng/). The researcher will be jointly supervised by Drs. Arndt Hampe (<https://scholar.google.com/citations?user=WFzkF44AAAAAJ&hl=en>) and Sylvie Oddou-Muratorio (https://scholar.google.com/citations?user=Gz_HoR8AAAAAJ&hl=en).

If funded, the postdoctoral contract will start in December 2023 (no delay possible) with a net salary of ca. 2200. Please note we can only admit candidates with less than 3 years of postdoctoral experience by the date of contracting. Interested applicants should send inquiries as soon as possible and no later than 21/08/2023 to arndt.hampe@inrae.fr and sylvie.muratorio@inrae.fr. Please include a brief (1-page) statement about your research background and interests, along with your CV and two contacts for references.

Arndt Hampe Directeur de Recherche INRAE UMR 1202 Biodiversité, GÃÃnes & Communautés 69, route d'Arcachon CS 80227 F-33612 Cestas cedex France tlf: ++33(0)535385359 email: arndt.hampe@inrae.fr <https://www6.bordeaux-aquitaine.inrae.fr/biogeco/UMR-Biogeco/Personnel/Annuaire-A-Z/H/Hampe-Arndt> <https://scholar.google.com/citations?user=WFzkF44AAAAAJ&hl=fr> Arndt Hampe <arndt.hampe@inrae.fr>

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INRAE RennesFrance eDNA Sharks PopGenomics

Post-doctoral project: Population ecology and genomics of porbeagle sharks using eDNA

As part of the Biodiversa+ eWHALE project (<https://ewhale.eu/>), we are currently seeking a 24-month post-doctoral researcher to study porbeagle sharks' popula-

tion ecology and genetics in Brittany (France), using eDNA methods.

The position will be based at UMR DECOD in Rennes/France (<https://www.umer-decod.fr/en>) and is available from 1st October 2023.

Porbeagle sharks (*Lamna nasus*) aggregate in unusually high numbers in shallow water off Brittany, northwest France. The hired post-doc will develop and implement eDNA methods to :

- Clarify its spatio-temporal patterns in distribution and habitat-use by analysing water eDNA samples collected from different locations in shallow water off the Tregor/Goelo coast and at various time points.
- Perform individual-level haplotyping from water eDNA and estimate intraspecific genetic diversity and structure. We aim to better understand their genetic variability, relatedness and potential subgroups (comparison with existing genetic data from the Bay of Biscay). In addition, we will also attempt to develop a novel method for genotyping a panel of SNPs to fingerprinting individual from seawater eDNA (comparison with visual observations and genotypes obtained from biopsies).
- Identify associated marine megafauna (marine mammals, Atlantic bluefin tuna, other sharks) and potential preys (fish, cephalopods, crustaceans) using water eDNA metabarcoding. This will help us gain insights into the ecological interactions between porbeagles and their prey, shedding light on their trophic relationships and feeding behavior.

Candidate profile:

We are seeking for a highly motivated and enthusiastic postdoctoral researcher with a burning interest for contributing to marine conservation and the development of molecular tools. She/He will play a key role for comparing the success of different eDNA sampling approaches and optimizing the laboratory and bioinformatic processing of samples collected during the pilot study (Water eDNA vs biopsies) in 2023 (pilot study) and the main sampling phase in 2024.

All interested candidates irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply. Qualifications and Skills:

- A Ph.D. in a relevant field, such as marine biology, conservation genetics, or environmental science, with a focus on molecular techniques and eDNA studies.
- Strong expertise in molecular biology, DNA extraction, PCR amplification, and sequencing methodologies.
- Proficiency in bioinformatic pipelines for processing high-throughput sequencing data.
- Ability to work independently, efficiently manage research tasks, and

meet project deadlines. - Excellent communication skills and a collaborative mindset to foster effective interactions within the research team and with project partners. - Fluency in English (both written and spoken) is required.

The candidate will be selected based on previous scientific track record and qualifications of relevance to the described projects. French speaking skills not mandatory, however, excellent written and spoken English is a requirement.

Working place and collaborations.

The successful applicant will work directly with Erwan Quéméré in a stimulating research group (<http://www.quemere.fr/>) based at the Research unit DECOD « Dynamics and sustainability of ecosystems: from source to sea » in Rennes (Brittany France) (<https://www.umr-decod.fr/en>). The research group offers an inspiring and creative working environment where innovative techniques such as remote sensing, genomics, spatial analysis, imaging, and modeling are utilized to study marine and freshwater ecosystems across various biological levels, from genes to organisms, populations, and communities. The lab is well-equipped with state-of-the-art facilities for eDNA analysis, including a dedicated PCR-free laboratory for eDNA analysis, a digital PCR system (QIAcuity), and direct access to an Illumina sequencing platform, and a bioinformatic server.

The project benefits from an attractive collaborative environment with strong partnerships involving the French Research Institute for Exploitation of the Sea (IFREMER, Verena Trenkel, Loïc Baulier), the NGO « Des Requins et des Hommes » (Sharks and Humans, Armelle Jung), the French Office of Biodiversity, and the Sept-Îles Nationale Nature Reserve. The successful applicant will be part of a large international research team and will be required to maintain regular communication and collaborative efforts with fellow partners from Austria (Bettina Thalinger, PI), Iceland, Italy, Azores islands within

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INRAE RennesFrance FishEvolution

Postdoctoral position: The evolution of reproductive organs across fishes

INRAE - Fish Physiology and Genomics Institute (LPGP), Rennes, France

The team led by Dr. Florent Murat (<https://florentmuratwebpage.wordpress.com/>) is interested in the evolution of fish genomes and reproductive organs. Notably, teleost fish represent one of the largest and most diverse clades of vertebrates and exhibit an outstanding reproductive diversity. In this context, we are trying to better understand associated evolutionary patterns and underlying molecular mechanisms. To do so, we make an extensive use of large-scale comparative genomics and bioinformatics as well as single-cell techniques across various fish species.

Our group is hiring a postdoctoral researcher with expertise in molecular/cell biology and bioinformatics interested in evolutionary genomics and reproductive biology. Experienced in single-cell techniques, the candidate will lead a project on the evolution of reproductive organs across fishes by generating and analyzing single-cell data from the gonads of various fish species showing contrasted reproductive features. The candidate will benefit from the great expertise of team members in bioinformatics, reproductive biology and evolutionary/comparative genomics.

Qualifications and interests: * Molecular/Cell biology * Single-cell techniques * Analysis of single-cell data * Evolutionary genomics * Reproductive biology

In our group we attach great importance to a collaborative and friendly atmosphere. Our team is part of INRAE / LPGP (Fish Physiology and Genomics Institute) located in Rennes, a dynamic city in Brittany (France) surrounded by many outstanding sites (Saint-Malo, Mont Saint-Michel, Normandy, English Channel, Atlantic Ocean, ...).

Initial appointment will be for one year, with the possibility of extension for one additional year. The candidate will be supported and encouraged to submit applications to prestigious postdoctoral fellowships (Marie Skłodowska-Curie, EMBO, ...) which would represent a strong asset for the next step of their career. The candidate will also be asked to present their results in international conferences.

To apply, please send an email to Florent Murat (florent.murat@inrae.fr) with a full CV, a cover letter and the names and contact information of three references.

Contact: Florent Murat, Phd INRAE - Fish Physiology and Genomics Institute (LPGP) Campus de Beaulieu - Batiment 16A 35042 Rennes, France E-mail: florent.murat@inrae.fr Tel.: +33 (0)223485306

Link to the team website: <https://florentmuratwebpage.wordpress.com/> References:

Murat, F., Mbengue, N., Boeg Winge, S., Trefzer, T., Leushkin, E., Sepp, M., Cardoso-Moreira, M., Schmidt, J., Schneider, M., Müller, K., Brüning, T., Lamanna, F., Riera Belles, M., Conrad, C., Kondova, I., Bontrop, R., Behr, R., Khaitovich, P., Grünert, F., Pübo, S., Marques-Bonet, T., Almstrup, K., Schierup, M.H. & Kaessmann, H. (2023) The molecular evolution of spermatogenesis across mammals. *Nature*, 613: 308-316.

Mbengue, N. & Murat, F. (2022) Exploring the rapid evolution of the mammalian testis. *Nature (Research Briefing)*. <https://doi.org/10.1038/d41586-022-04221-2> . Florent Murat <florent.murat@inrae.fr>

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MarianU Amphibian Genomics Evolution

The Postdoctoral Scholar will work alongside Dr. Rob Denton in the Department of Biology and participate in NSF-funded research on the mitonuclear conflict and co-evolution within polyploid salamanders. Preference will be given to those with a record of conducting scientific research in evolutionary biology and genomics and the potential for excellent teaching and leadership. The Postdoctoral Scholar will work closely with other faculty in Biology and teach ~1 course per academic year. The position will be funded up to three years pending satisfactory yearly performance evaluations. The salary will be \$55,000 and includes benefits.

The Department of Biology at Marian University is a collaborative and growing academic community committed to fostering student engagement, problem solving, and communication. Marian University believes that to grow stronger it is essential to recruit and retain a diverse faculty and staff to build an inclusive community.

Thus, we welcome and encourage applications across the intersections of diverse races, ethnicities, religions, sexual orientations, gender identities, ages, socio-economic backgrounds, political perspectives, cultures, and national origins.

Essential Duties and Responsibilities: - Collect data, lead analyses, and communicate results (presentations, peer-reviewed manuscripts) on projects related to NSF CAREER grant #2045704 - Teach approximately one Biology course per year - Mentor undergraduate researchers as they develop and implement independent research projects - Assist in the caretaking of live research animals - Participate in career development programming offered through the PI and Marian's Center for Teaching and Learning - Join the PI in building a respectful, welcoming academic environment in which students from all backgrounds can develop and make progress towards their goals

Required Qualifications: - A PhD in a related field (Evolutionary Biology, Genomics, Integrative Biology, etc) to be awarded prior to the official start date - Experience in bioinformatics (Examples may include but are not limited to evolutionary genomics analyses, whole genome sequencing of non- model species, RNAseq and comparative transcriptomics). - Potential for excellence in teaching and leadership - Demonstrated ability to work with colleagues and students of diverse backgrounds.

Review of applications will begin immediately and continue until the position is filled. Applications require a cover letter, a current CV, contact information for two professional references, and responses to the supplemental mission questions (please contact PI with any concerns or questions about mission questions).

Application link: <https://marian.peopleadmin.com/postings/2814> Contact: Rob Denton <rdenton@marian.edu> Website: dentonlab.org

Robert Denton <rdenton@marian.edu>

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MichiganStateU EvolutionaryBiology

The Ecology, Evolution, and Behavior (EEB) program at Michigan State University invites applications for a Postdoctoral Fellowship in Ecology, Evolution, and Behavior. The MSU EEB Presidential Postdoctoral Fellowship is a two-year position that includes a generous salary and research stipend. Fellows are fully participating members of EEB. They are expected to develop cutting-edge research programs and innovative community engagement initiatives, and will be mentored by two or more EEB faculty members. A list of possible faculty mentors can be found here: <https://eeb.msu.edu/people/core-faculty/>. Candidates should contact potential faculty mentors before applying.

The position is two years, subject to review after one year, with an annual salary of \$65,000 plus benefits, as well as a research stipend of \$8,000 per year. Postdocs are expected to be based on MSU's campus and up to \$1,000 of moving expenses may be reimbursed from the research stipend in the first year. We encourage applications from candidates in any early-career stage, from finishing PhD students to current postdoctoral scholars. International candidates are eligible. Applications are due November 6, 2023.

For more information on the MSU Foundation EEB Postdoctoral Fellowship, including detailed application instructions, please see <https://eeb.msu.edu/initiatives/postdoctoral-fellowship/> Michigan State University is an Equal Opportunity/Affirmative Action employer, and actively encourages applications from women, persons of color, veterans, and persons with disabilities. E-mail any questions to committee chair Emily Josephs josep993@msu.edu

“Josephs, Emily” <josep993@msu.edu>

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MichiganStateU PlantEvolutionGenomics

The Lowry Lab in the Department of Plant Biology at Michigan State University (MSU) is seeking a Postdoctoral Research Associate who will conduct DOE-funded research on field and genomic datasets that have been collected from large switchgrass experiments over the past decade. Switchgrass is a native North American plant that is ideal for studies of climate adaptation and is being improved through breeding for the future Bioeconomy (Biofuels and Bioproducts). Responsibilities will primarily include conducting statistical/genomic analyses and leading the writing of manuscripts. The Postdoctoral Research Associate is expected to work collaboratively with members of the Lowry Lab at Michigan State University, including undergraduate and graduate students as well as technicians, to carry out this research. The successful applicant will also be expected to attend meetings of the DOE Great Lakes Bioenergy Research Center and MSU Plant Resilience Institute as well as participate in the annual switchgrass harvest in Michigan.

Please ignore the date in the job ad. Review of applications will begin on August 16th.

<https://careers.msu.edu/en-us/job/515633/research-associatefixed-term> David B. Lowry

Associate Professor Department of Plant Biology Michigan State University, USA <http://davidbryantlowry.wordpress.com/> “Lowry, David” <dlowry@msu.edu>

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NetherlandsInstEcol Wageningen DuckweedAdaptation

We have a postdoc position (36 months) available to work on the adaptive significance of thermal gene expression plasticity in Duckweed under heterogeneous temperature environments.

The position is hosted in my group at the Netherlands Institute of Ecology (NIOO-KNAW) in Wageningen, Netherlands. The project combines elements from evolutionary ecology, experimental evolution, transcriptomics and epigenetics. Collaborators in the project include Sonia Sultan (Wesleyan), Emanuele DePaoli (Udine) and Nele Horemans (SCK-CEN Belgium). We offer a dynamic and inspiring environment with excellent support for experimental work and analysis, and with great opportunities for collaboration.

A full description is here: <https://nioo.knaw.nl/en/vacancies/postdoc-gene-expression-plasticity-plant-adaptation-under-climate-change> Deadline for application: 15 September 2023.

Please send informal inquiries to: k.verhoeven@nioo.knaw.nl

Dr. Koen Verhoeven Dept. Terrestrial Ecology Netherlands Institute of Ecology (NIOO-KNAW) Wageningen, The Netherlands k.verhoeven@nioo.knaw.nl <https://nioo.knaw.nl/en/employees/koen-verhoeven> “Verhoeven, Koen” <K.Verhoeven@nioo.knaw.nl>

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NHM London AncientDNA

A two year ancient DNA postdoc to work with Selina Brace and the ancient DNA group at the NHM London.

The position will entail using ancient DNA from small mammals and sediments from Palaeolithic caves in Armenia. This work is part of a larger project in collaboration with Dr Ariel Malinsky-Buller (The Hebrew University) to understand how humans and other mammals responded to climatic oscillations in the Southern Caucasus and Armenian highlands during the Palaeolithic.

Closing date 10th August so for further information and the application please visit this site:

Natural History Museum (nhm.ac.uk)

Dr Selina Brace Principal Researcher in ancient DNA Natural History Museum Cromwell Road London SW7 5BD Tel. +44 207 942 6893

Selina Brace <S.Brace@nhm.ac.uk>

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NHM UCopenhagen Denmark EvolConservationGenomics

Postdoc in evolutionary and conservation genomics

<https://jobportal.ku.dk/videnskabelige-stillinger/?show=159894> Natural History Museum Denmark

Faculty of SCIENCE

University of Copenhagen

We are searching for a researcher to fill a 3-year postdoctoral position in evolutionary and conservation genomics, to begin on 1 November 2023 or soon thereafter.

The position is funded by the research project “Causes and consequences of flightlessness in birds”, financed by Danmarks Frie Forskningsfonden (DFF; Independent Research Fund Denmark). This project will explore the genetic mechanisms and evolutionary processes underlying the spectrum of flight capacities across bird species. The project will also examine the potential trade-offs associated with flightlessness, such as changes in morphology, metabolism, behavior, and population size. By analyzing genomic data from both flightless and flight-capable bird species, this research seeks to unravel the genetic signatures and functional implications of flightlessness, shedding light on the evolutionary consequences and adaptive trajectories of this intriguing phenomenon in avian evolution.

We are searching for candidates with experience and expertise in the fields of phylogenetics, population genetics, evolutionary genomics, conservation genetics, demography, and related disciplines. Knowledge and experience in ornithology and biogeography are desirable, but not required. The postdoc will have opportunities to design, create, and lead projects based on their own interests, given that they are within the scope of the funded research.

The postdoc’s duties will include:

- Writing and developing manuscripts for submission to leading peer-reviewed research journals
- Analyzing and managing comparative genomic data
- Knowledge dissemination, including presentations at international conferences
- Professional development

Essential experiences and skills include:

- PhD in evolutionary biology, genomics, or a related field
- A strong publication record in peer-reviewed jour-

nals - Effective communication skills - Bioinformatics and computational skills and proficiency in tools and programming languages (e.g., Python, R, or others) - Ability to work independently and in collaboration

Desirable but non-essential experiences include:

- Wet-lab experience, including DNA extraction and genomic library preparation - Experience with high-performance computing

Further information about the department is linked at <https://snm.ku.dk/english/> . Inquiries about the position can be made to Peter A. Hosner (peter.hosner@snm.ku.dk).

The University wishes our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates regardless of personal background.

Research environment The selected candidate will be part of a research team at the University of Copenhagen that focuses on the intersection of biogeography, evolution, and phylogenetics. The team uses new materials from the field alongside the historical specimen collections held at the Natural History Museum of Denmark to unravel the evolutionary history and biogeographic patterns of birds. Using a foundation of DNA sequence data to infer historical relationships, we explore the ecological and evolutionary factors driving the diversification of species and their traits, including morphology, behavior, and adaptation to different environments. The team is positioned in the Natural History Museum Denmark, Faculty of SCIENCE, University of Copenhagen; and it also has an affiliation with the Center for Macroecology, Evolution, and Climate, Globe Institute, Faculty of SUND.

Terms of employment The position is covered by the Memorandum on Job Structure for Academic Staff.

Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State.

Negotiation for salary supplement is possible.

The application, in English, must be submitted electronically by clicking APPLY NOW below.

Please include

- Motivated letter of application (maximum length two pages) - Curriculum vitae - Complete publication list - Diplomas (Master and PhD degree or equivalent)

The deadline for applications is 15 September 2023, 23:59 GMT +2

After the expiry of the deadline for applications, the

authorized recruitment manager selects applicants for assessment on the advice of the Interview Committee.

You can read about the recruitment process at <https://employment.ku.dk/faculty/recruitment-process/> . Interviews will be held online, on or around 2 October 2023

Peter Andrew Hosner <peter.hosner@snm.ku.dk>

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OklahomaStateU ModellingEbolaMarburg

Post Doctoral Fellow, Statistical Modelling of African Filovirus Ebola and Marburg) Spillover Risk and Outbreak Dynamics, Oklahoma State University

Funding is available for a postdoctoral fellow to investigate ebolavirus disease dynamics in sub-Saharan Africa. The position is based in Stillwater, Oklahoma. The appointment is for one year initially, but the line is fully funded for up to three years. We are now entering into the final phase of the project where we will compare and contrast the effects of socioeconomic factors such as land use, poverty, medical infrastructure, and armed conflicts with the effects of eco-environmental factors such as climate, and mammalian host biodiversity on ebolavirus disease dynamics.

The successful candidate will build statistical models capturing how large-scale environmental and socioeconomic factors and affect disease dynamics, primarily spillover and outbreaks for Ebola and other African filoviruses, participate in database development (developing existing resources and new ones as needed), and developing project workflows in R. Knowledge of statistical modelling, machine learning (such as boosted regression trees, ridge regression), GIS, proficiency with R and experience either with macroecological analyses or statistical analyses of disease dynamics are required. Additional skills such as knowledge of disease ecology, Ebolavirus ecology and evolution, economic or biodiversity analyses, mechanistic mathematical modelling or

phylogenetic comparative methods are welcome but not essential.

Required qualifications are a Ph.D. in ecology, evolutionary biology, statistics, economics, epidemiology or closely related fields. Candidates with a past record of publication in disease ecology, macroecology, or economics will be given preference. Candidates must have excellent English writing and verbal communication skills, as well as an established record of productivity (i.e., at least one previous peer reviewed publication). The position is available immediately and will remain open until filled. The position will initially have a duration of one year, with possibility of extension to a second year depending on satisfactory performance and funding availability. Compensation will include \$54,840 for 12 months of salary (at minimum), health insurance and other benefits.

To apply, please submit a cover letter addressing how the candidate's expertise meets the position requirements, a CV, one representative publication, and contact info (phone and email) for three references to Patrick Stephens (patrick.stephens@okstate.edu). Please use "Application for Post Doctoral Fellow LASTNAME" as the message header. Additional inquiries or requests for clarifications are also welcome, send them to Patrick Stephens at (patrick.stephens@okstate.edu). We value the diversity of perspectives that a team made up of individuals with varied backgrounds will possess and strongly encourage applications from members of groups underrepresented in STEM.

Oklahoma State University, as an equal opportunity employer, complies with all applicable federal and state laws regarding non-discrimination and affirmative action. Oklahoma State University is committed to a policy of equal opportunity for all individuals and does not discriminate based on race, religion, age, sex, color, national origin, marital status, sexual orientation, gender identity/expression, disability, or veteran status with regard to employment, educational programs and activities, and/or admissions. For more information, visit <https://eeo.okstate.edu>. Additional information: We are at the halfway point of the project, and we already have a solid track record of productivity with a half dozen publications out or in review and more in various stages of development. This position is to replace a post-doctoral scholar (our first hire) that has just accepted a tenure track faculty position at a R1 University. The cost of living in Stillwater is low even for a rural college town. Rent in the center of town within walking distance of campus, bars, restaurants, coffee shops, book stores and other amenities is extremely reasonable. If you have a car there is also a lot of nice hiking in the region, and two major metro areas nearby. Oklahoma

City in particular has a great entertainment and music scene, and is an easy 45 minute drive from campus. However, regardless of how you feel about Oklahoma, we are moving into the final phase of the project that I expect to lead to some of our most impactful and high-profile publications. Any applications received before the end of Aust will certainly receive full consideration, but I will continue to search until the position is filled and I will have additional opportunities available in the coming year. Please come join our team!

Patrick R Stephens Assistant Professor Department of Integrative Biology 420 Life Sciences West Oklahoma State University

— / —

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

Philadelphia Biodiversity Forecasting Extinction

Postdoctoral position in biodiversity forecasting and extinction risk, Temple University, Philadelphia, USA

A postdoctoral position in biodiversity forecasting and extinction risk is available in the laboratory of Blair Hedges (www.hedgeslab.org) in the Center for Biodiversity at Temple University, Philadelphia. Funding for the position comes from the NSF program "Biodiversity on a Changing Planet" (BoCP). The research project tests hypotheses of functional diversity change across landscapes and through time using animal and plant species on Caribbean islands.

A PhD in a relevant field and fluency in English are required, as well as proven expertise in spatial modelling and scripting languages (e.g. R, Python). The ideal candidate will have experience with remote sensing and large datasets, as well as cluster computing, be able to develop new ideas independently, and be an excellent team worker. The successful candidate will join a team of researchers from several institutions with expertise in organismal and evolutionary biology, satellite remote sensing, and extinction risk.

The Center for Biodiversity (www.biodiversitycenter.org) is located within Temple's Science, Education, and Research Center (SERC) on

the main campus. It is affiliated with the Department of Biology and College of Science and Technology. Temple University is located in the heart of historic Philadelphia, home to many academic and research institutions as well as numerous cultural attractions.

Interested persons should send an e-mail to Prof. S. Blair Hedges (director@biodiversitycenter.org) briefly stating their previous research, future career goals, and motivation for this project. Also attach a full curriculum vitae that contains contact information for three academic references. Review of applications will begin on 15 September 2023 and continue until the position is filled.

Temple University is an equal opportunity and equal access employer committed to achieving a diverse workforce (AA, EOE, m/f/d/v).

“S. Blair Hedges” <sbh@temple.edu>

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SanAntonio MalariaParasiteEvolutionaryGenetics

TEXAS BIOMEDICAL RESEARCH INSTITUTE,
SAN ANTONIO, TEXAS

<https://www.txbiomed.org/> POSTDOC: MALARIA
PARASITE EVOLUTIONARY GENETICS

I am searching for an enthusiastic postdoctoral researcher to work on adaptive evolution in the malaria parasite, *Plasmodium falciparum*. These parasites can be maintained in the laboratory, so are amenable to experimental and functional analyses. Genetic crosses can be conducted allowing linkage analysis of parasite traits, while CRISPR based gene editing and nanopore sequencing is established in our laboratory. Malaria parasites are the target of aggressive ongoing control programs in endemic areas, so are ideal organisms for studying ongoing selective events in nature. We have long-term collaborations with researchers in SE Asia, and collections of parasites spanning two decades. The successful candidate will work with existing genomic datasets and develop new projects involving analyses of field collected parasites, experimental laboratory populations, and genetic crosses. This is an excellent opportunity for someone who would like to work on the evolutionary biology of an important human pathogen.

The successful applicant will join a vigorous infectious disease program at Texas Biomed, including work on malaria, schistosomiasis, Ebola, influenza, coronavirus, HIV, and TB. Texas Biomed provides a stimulating environment with work on population genomics, quantitative genetics, and has outstanding computational and wet lab facilities. San Antonio is a vibrant, rapidly growing city with an interactive research community, and affordable housing.

RELEVANT PUBLICATIONS

* Phyto, A.P et al. Emergence of artemisinin-resistant malaria on the western border of Thailand: A longitudinal study. *Lancet* 2012; 379:960- 1966. PMC3525980
Cheeseman, I.H., et al. A major genome region underlying artemisinin resistance in malaria. *Science* 2012; 336:79- 82. PMC3355473

* Cheeseman IH, Miller B, Tan JC, Tan A, Nair S, Nkhoma SC, De Donato M, Rodulfo H, Dondorp A, Branch OH, Mesia LR, Newton P, Mayxay M, Amambua-Ngwa A, Conway DJ, Nosten F, Ferdig MT, Anderson TJ. < <https://www.ncbi.nlm.nih.gov/pubmed/26613787/> > *Mol Biol Evol.* Population Structure Shapes Copy Number Variation in Malaria Parasites. 2016 Mar;33(3):603-20. PMID: PMC4760083

* Anderson TJ, et al. Population parameters underlying an ongoing soft sweep in Southeast Asian malaria parasites. *Mol Biol Evol.* 2017 Jan; 34(1): 131-144. PMID: PMC5216669

* Li X, et al. Genetic mapping of fitness determinants across the malaria parasite *Plasmodium falciparum* life cycle. *PLoS Genet.* 2019;15(10):e1008453. PMID: PMC6821138

* Amambua-Ngwa A, et al. Chloroquine resistance evolution in *Plasmodium falciparum* is mediated by the putative amino acid transporter AAT1. *Nat Micro* 2023; 8(7):1213-26. PMID: PMC10322710.

Publication list: <https://www.ncbi.nlm.nih.gov/sites/myncbi/tim.anderson.1/bibliography/40734139/-public/?sort=date&direction=descending> Lab website: <https://texasbiomedical.theopenscholar.com/-anderson-lab/> EDUCATION/EXPERIENCE/SKILLS: REQUIRED: Ph.D. in evolutionary biology, genetics, molecular biology, or a related discipline. Strong bioinformatic skills ideal. Ability to conduct/supervise laboratory research is an advantage. No experience of malaria parasite research necessary.

Apply online at <https://txbiomed.csod.com/ux/ats/-careersite/1/home/requisition/568?c=txbiomed> .Application packets are accepted electronically. A completed application packet is a requirement for all positions.

Applications will be reviewed until the position is filled.

Tim JC Anderson

Texas Biomedical Research Institute

PO Box 760549

San Antonio, TX 78245-0549

email: tanderso@TxBiomed.org

Tim Anderson <tanderso@txbiomed.org>

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ing@mcmaster.ca)

SanFranciscoStateU GalapaGenomes

POSTDOC POSITION ??? GALAPAGENOMES

In the Chaves-Dumbacher Lab at San Francisco State University and the California Academy of Sciences

We are excited to announce a fantastic opportunity for a highly motivated and skilled postdoctoral researcher to join the GalapaGenomes Project at San Francisco State University (SFSU) and the California Academy of Sciences (CAS). This interdisciplinary initiative aims to sequence and assemble whole genomes of Galapagos species and use them in population genomic and phylogenetic studies. The postdoc will use cutting-edge bioinformatic techniques with the invaluable resources of museum specimens and modern samples. There will also be opportunities to develop undergraduate curricula using genome sequence data, mentor students, and for professional development at SFSU, CAS, and institutions in the US and Ecuador. In compliance with our commitment to diversity and inclusivity, we encourage applications from individuals of all backgrounds and experiences.

Position Details

Duration: 16.5 months

Salary: \$58,000 (12 months) + 41,880 (4.5 months); fringe rate 85.17% and eligible for benefits (total time of employment 16.5 months)

Location: San Francisco, Bay Area (California)

Research based at: San Francisco State University and California Academy of Sciences

Start date: Flexible (preferably January 2024)

Responsibilities:

Process, curate, and analyze genomic data from museum specimens and contemporary samples. Conduct de novo genome assembly and annotation. Apply population genomic analyses to investigate patterns of genetic variation and evolution within Galapagos species. Perform phylogenetic analyses to elucidate the evolutionary relationships and historical biogeography of Galapagos species. Collaborate with undergraduate and graduate mentorship and curriculum development. Prepare and publish scientific papers, and present findings at conferences and workshops. Contribute to the development and optimization of bioinformatic pipelines for genomic data analysis.

Required Qualifications:

Ph.D. in Evolutionary Biology, Bioinformatics, Genomics, Computational Biology, Conservation Genetics, or a related field. Experience in bench work with aDNA/museum specimens is strongly preferred (amplicon-based aDNA and library preparation). Demonstrated interest and experience in genome assembly and annotation. Proficiency in bioinformatics tools and methods for handling genomic data as well as programming languages commonly used in bioinformatics (e.g., Python, R, Perl, etc.). Proficiency in population genomic analyses, such as variant calling, population structure analysis, and selection scans. Solid understanding of phylogenetic methods and their application to evolutionary questions. Previous experience with analyzing genomic data from museum specimens is a plus. Excellent data analysis, problem-solving, and communication skills. Ability to work collaboratively in a team and independently, with a strong sense of initiative. A passion for conservation genomics and biodiversity research. Interest in developing courses for undergraduates using genome analysis tools and mentoring graduate students.

Project Environment:

The GalapaGenomes Project offers a unique and dynamic research environment, combining fieldwork opportunities in the Galapagos Islands with access to state-of-the-art genomic facilities and computational resources at CAS and SFSU. The successful candidate will be part of a vibrant research community, collaborating with leading scientists and institutions in the fields of biology and conservation.

To apply:

Please submit the following documents to jachaves@sfsu.edu

- Cover letter detailing your interest in the position and motivation to join this effort.

- Curriculum Vitae (CV) including a list of publications.
- Contact information for 3 professional references.

For full consideration, please submit an application by October 10th, 2023. After this date, applications will be reviewed on a rolling basis until the position is filled.

Don't hesitate to reach out to Jaime Chaves at jachaves@sfsu.edu or to Jack Dumbacher at jdumbacher@calacademy.org

More information at <https://jaimechaves.weebly.com/>
Jaime A. Chaves, Ph.D.

Assistant Professor Department of Biology San Francisco State University Hensill Hall 759 1600 Holloway Avenue San Francisco, CA 94132-1722

Email: jachaves@sfsu.edu Lab website: jaimechaves.weebly.com pronouns: he/him/his

Zoom link Meeting ID: 357 347 8799 Passcode: 265654

“Jaime A. Chaves” <jachaves@sfsu.edu>

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SUNY Buffalo Vertebrate Speciation

The Baiz Lab in the Department of Biological Sciences at the University at Buffalo invites applications for a Postdoctoral Associate position.

Position: Postdoctoral Associate, full time

Location: University at Buffalo (SUNY), Buffalo, NY, USA

Salary: Year 1: \$54,840, Year 2: \$55,937. The position also includes health care benefits.

Start date: Fall 2023/Spring 2024 (start date is negotiable)

Description: Research in the Baiz Lab uses molecular tools to understand the process of speciation in vertebrate systems, from genes underlying reproductive isolation and adaptation to differentiation of host-associated symbiont communities.

Current projects focus on (1) understanding the evolution of avian pigmentation, (2) hybrid zone studies involving gut microbiome variation, gene introgression, and color phenotypes, and (3) phyllosymbiosis. Ideal candidates will have research interests in speciation, population genetics, microbiomes, and/or evolutionary

genomics. The candidate is encouraged to analyze existing datasets and/or samples currently in the lab, and is also encouraged to develop new projects closely related to research themes in the lab.

Opportunities include:

Support for conference travel
Development of independent research projects/grant proposals
Bioinformatic analysis
DNA extraction and sequencing
Fieldwork
Mentoring of undergraduate and/or graduate students
Lab website: <https://baizlab.weebly.com>
Minimum qualifications: PhD in evolutionary biology/ecology, or a related field.

Application: Interested applicants should submit their CV and contact information for three references via email to Dr. Marcella Baiz (mbaiz@buffalo.edu).

Outstanding Benefits Package: Working at UB comes with benefits that exceed salary alone. There are personal rewards including comprehensive health and retirement plan options. We also focus on creating and sustaining a healthy mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. Visit our benefits website to learn about our benefit packages.

About The University at Buffalo: The University at Buffalo is one of America's leading public research universities and a flagship of the State University of New York system, recognized for our excellence and our impact. UB is a premier, research-intensive public university dedicated to academic excellence. Our research, creative activity and people positively impact the world. Like the city we call home, UB is distinguished by a culture of resilient optimism, resourceful thinking and pragmatic dreaming that enables us to reach others every day.

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Marcella Baiz, PhD (she/her) Assistant Professor 509 Hochstetter Hall Dept. of Biological Sciences University at Buffalo The State University of New York

Marcella Baiz <mbaiz@buffalo.edu>

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Toulouse France Evolutionary Genomics

Two years postdoctoral position in genomics and evolutionary biology in the team of Jonathan Rolland at University of Toulouse, France.

Topic. The latitudinal distribution of species depends on their ability to adapt to a gradient of environmental conditions (temperature, seasonality, Zanne et al. 2014). This adaptation determines species ability to persist in tropical and/or temperate regions or to shift their range of distribution and colonize new regions. Determining how species adapt to latitudinal clines will allow to understand how species have been shifting their range to temperate regions during the global cooling of the earth since the Miocene, but also at a much shorter term in the context of the current climate change. There is a recent interest into the molecular adaptation to latitudinal clines (Yeaman et al. 2016, Durmaz et al. 2018, Exposito-Alonso et al. 2019), but the main molecular mechanisms and major genetic architecture permitting adaptation to latitude remain to be discovered.

The postdoctorate will take advantage of an exceptional dataset of re-sequenced whole genomes gathered with D. Schluter (University of British Columbia) comprising nearly 1,000 individuals of three-spined sticklebacks and 120 individuals of chinook salmon. She/he will study molecular adaptations that would allow the adaptation of lineages on the latitudinal gradient. She/he will specifically identify potential adaptive loci by detecting latitudinal clines in allele frequency across the genomes to study the question: Are those adaptations acquired de novo or are they evolving in parallel from the same genetic architecture in several species? She/he will follow two approaches: (1) studying the list of candidate genes that have been identified in the literature as potentially adaptive to latitude and (2) using genome scans on whole genomes, looking for the SNPs with the strongest association in homologous genes between sticklebacks and salmon (such as the approach ran in Yeaman et al. 2016).

The candidate should have a PhD in Biology/Evolutionary Biology and skills in bioinformatics and genomic analyses (GEA and population genomics). Softwares will be R and python scripts, and other bioinformatics tools such as orthoFinder/orthoMCL, GATK, Admixture, Å The candidate should be

motivated to interact with other scientists, proficient in English, with a good publication record. Early-career postdoc will be favored.

He/she will be mainly supervised by Jonathan Rolland (CNRS, at the University of Toulouse), in close collaboration with other several Canadian collaborators (D. Schluter, M. Whitlock, T. Booker, K. Christensen,) and other french collaborators (R. Aguilée, L. Chikhi). Our lab combines genetics/genomics, phylogenetics, niche modelling, paleontology and computational methods to investigate how diversity is distributed on earth and how latitudinal gradients have been shaped through time.

At a local scale, the postdoc will be involved in the organization of seminars/journal clubs in the laboratory Evolution et Diversité Biologique (EDB). The project will also benefit from the rich scientific environment in the laboratory EDB in the university of Toulouse.

Toulouse is the main city in the South-West of France with a living atmosphere, located one hour from the Pyrenees mountains, two hours away from Montpellier and three hours from the Atlantic Ocean.

To apply, please e-mail to Jonathan Rolland (jonathan.rolland@univ-tlse3.fr) a single PDF that contains: (1) a short statement (~1 page) that describes your research accomplishments and motivation for applying, (2) a CV, and (3) contact information for two references before the 15th of October. The successful candidate will move to France in the first trimester of 2024.

For more information about research in our lab, please visit:

<https://jorolland.wordpress.com> and <https://edb.cnrs.fr>
Jonathan Rolland

CNRS researcher at the University of Toulouse 3

<https://scholar.google.com/citations?user=-RibBKAYAAAAJ&hl=en> Jonathan Rolland
<jonathan.rolland@yahoo.fr>

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UArkansas Evolutionary Ecology

Postdoctoral Associate in Evolutionary Ecology

The Siepielski Lab (<https://asiapielski.wordpress.com/-join-us/>) invites applications for a Postdoctoral Asso-

ciate in Evolutionary Ecology. This NSF funded project will address questions focused on understanding how adaptive evolution under climate warming affects species tradeoffs mediating coexistence, population regulation, and diversity in damselflies.

Primary responsibilities:

Developing and running field and lab experiments and observational studies in mesocosms, implementation and statistical analysis of quantitative genetics experiments, authorship of peer-reviewed articles, communication of findings at professional meetings, and management of research projects. Ample opportunity exists to develop additional projects under the general themes of community ecology, population ecology, and evolutionary ecology using theory, experiments, or meta-analytical techniques. The post-doc will directly supervise a full-time technician that will assist with much of the field and lab work.

Qualifications:

Candidates must have a Ph.D. in biology, ecology, evolutionary biology or a closely related field, experience and expertise with ecological and evolutionary models and statistical analyses, and excellent written and verbal communication skills. While expertise in quantitative genetics is ideal, it is not required - a strong background in mixed effects statistical models would be helpful, though. Similarly, an ideal candidate would have experience or interests in thermal biology and species coexistence.

Application Details:

This position is based in the Department of Biology and EEOB group at the Main Campus of the University of Arkansas and includes competitive salary (based on relevant experience), health care, and retirement benefits. This is a full-time, 12-month, 1-yr position. Reappointment is available for up to 4 years, conditional on satisfactory performance.

For a complete, formal position announcement and information regarding how to apply, visit https://uasys.wd5.myworkdayjobs.com/UASYS/-job/Fayetteville/Postdoctoral-Fellow-in-Biological-Sciences_R0043942 . Applicants must submit a CV/resume and a cover letter. The cover letter should contain a brief description of experience in evolutionary ecology/community ecology.

We are looking for someone to start as soon as possible; however, the start date is flexible. Consideration of applications will begin August 25th, 2023 and continue until the position is filled.

For more information, please email Dr. Adam Siepielski at amsiepie@uark.edu.

The University of Arkansas, Fayetteville, AR, is a research university located in the Ozark Mountains. The faculty and graduate students at UARK are highly interactive and include an excellent group of evolutionary biologists and ecologists. We are located in an ideal setting for field-based projects. Fayetteville, located in northwest Arkansas, offers a high quality of living at a low cost, an excellent climate, and is a large enough city to offer diverse activities and amenities. It has consistently been ranked as one of the best places to live in the US. Rock climbing, hiking, kayaking, canoeing, and especially mountain biking opportunities are in close proximity - NW AR is the "Mountain Bike Capital of the World."

Adam M. Siepielski Department of Biological Sciences
University of Arkansas Fayetteville AR, 72701

Adam Michael Siepielski <amsiepie@uark.edu>

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UCalifornia Davis ForestAdaptation

Postdoc in Climate-Adapted Reforestation at UC Davis

We're seeking a postdoc to collaborate with on adapting forests to climate change (assisted gene flow) for reforestation. Postdoc will analyze data from hundreds of thousands of trees planted in common garden experiments across Western North America and develop approaches for selecting low-risk, high-return portfolios of wild-collected native seeds. The simple intervention of planting more climate-adapted genetic varieties can yield immense benefits to forest recovery, carbon sequestration, timber production, and fire resistance. This is a 2 + yr position with opportunities for extension, publications, mentorship, professional development, and networking with a variety of scientific collaborators and ecosystem managers. Remote work is possible. Starting salary is negotiable, depending on expertise and experience, ranging between \$70,000 to \$80,000.

View the full advert at https://ReforestationTools.org/-pd_ad Joseph Stewart

Postdoc, UC Davis StewartEcology.org

ReforestationTools.org

Joseph Stewart <joestewart@ucdavis.edu>

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UCalifornia SantaCruz AmphibianPopGenetics

Postdoctoral Researcher in Amphibian Conservation and Population Genetics

University of California, Santa Cruz

The Palkovacs Lab < <https://palkovacs.eeb.ucsc.edu/> > in Coastal and Freshwater Ecology at the University of California, Santa Cruz (UCSC) is searching for a Postdoctoral Researcher to work on a project funded by the US Fish & Wildlife Service to use genetic data to track success of admixture propagation and translocation for the endangered, highly endemic Santa Cruz long-toed salamander (*Ambystoma macrodactylum croceum*). This project will use captive breeding to increase the genetic diversity of isolated populations and genetic monitoring to track the reproductive success of released animals. This novel approach represents a proactive conservation method to increase the resilience of this endangered species to climate change. This project is in partnership with the US Fish & Wildlife Service, California Department of Fish & Wildlife, NOAA Southwest Fisheries Science Center, and Ellison Conservation Center.

The postdoctoral researcher will receive salary and benefits according to the rate determined by the University of California academic salary scales < <https://apo.ucsc.edu/docs/scales-crnt.pdf> >. The project duration is three years, renewed annually. A start date of October 1, 2023 is preferred, with some flexibility given the short timeline. The position will be based at the UCSC Coastal Science Campus (in-person required).

To apply: Please submit a cover letter describing your relevant interests and experiences, CV, and contact information of three professional references.

Please direct informal inquiries to Eric Palkovacs (epalkova@ucsc.edu), John Carlos Garza (carlosg@ucsc.edu), Regina Spranger (rsprange@ucsc.edu), and Chad Mitcham (chad_mitcham@fws.gov).

For full consideration, please email your complete application materials to Professor Eric Palkovacs (epalkova@ucsc.edu) by August 31, 2023.

Applicants with experience in amphibian husbandry, breeding, and population genetics are strongly encour-

aged to apply. The postdoctoral researcher is expected to lead or assist with the following tasks: Husbandry and captive breeding of endangered salamanders Monitoring health of captive animals Mentoring a team of undergraduate researchers Measuring amphibian egg and larval survival Measuring amphibian growth and thermal physiology Developing and testing microhaplotype genetic markers Collecting data on larval density in the wild Taking larval tissue samples for genotyping Setting up and maintaining a project database Analyzing genetic data to track fitness in the wild Measuring environmental characteristics of breeding ponds Preparing project reports and peer reviewed publications Giving talks for scientific, management, and public audiences UCSC is committed to promoting and protecting an environment that values and supports every person in an atmosphere of civility, honesty, cooperation, professionalism and fairness. UCSC expects that every campus member will practice these Principles of Community < <https://www.ucsc.edu/about/principles-community.html> >.

Regina Spranger <rsprange@ucsc.edu>

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UCincinnati SensoryEvolution

Dear colleagues,

I write to advertise a postdoctoral position associated with a recently launched interdisciplinary research institute here at the University of Cincinnati called the Institute for Research in Sensing (IRiS, <https://www.artsci.uc.edu/iris.html>). More information about this position can be found below. If you or someone you know might be interested in applying, feel free to share. To apply, please use the following link (<https://jobs.uc.edu/job/Cincinnati-Post-Doc-Fellow%2C-Institute-for-Research-in-Sensing-OH-45201/1057719800/>). If you have questions, you are welcome to reach out to me (Nathan Morehouse, IRiS Director and Search Committee Chair, nathan.morehouse@uc.edu).

All my best,

Nate

Postdoctoral Associate, Institute for Research in Sensing (IRiS) Job Description:

The Institute for Research in Sensing (IRiS) is a recently established interdisciplinary research institute at the University of Cincinnati focused on novel routes to innovation in sensing research and sensor technology development through purposeful integration of STEM and non-STEM perspectives, including basic and applied research, medicine, engineering, the humanities, social sciences, and fine and performing arts. We are seeking a postdoctoral associate interested in interdisciplinary research management and innovation in interdisciplinary practices to serve as program manager for a range of IRiS activities in collaboration with the IRiS Leadership Team. These may include contributing to:

- * Coordination of the IRiS Graduate Research Fellows Program. Interdisciplinary teams of fellows (4 per team, 16 fellows total) will spend a year in intensive training and team-taught coursework focused on interdisciplinary problem-solving and innovation to address “Grand Challenges” posed by external partners from the private and public sector. The postdoc may be involved in co-teaching and/or mentoring one of the fellow teams during the academic year.
- * Coordination of the IRiS Alloy Discussion Series, a recurring series of interdisciplinary discussions on current topics in sensing research and sensor technology development (4 per academic year).
- * Coordination of IRiS Ignite, a two-day “expo and festival of sensing” that brings together members of the academic community, public, and private sector to discuss the future of sensing, from basic research to applied technologies, and from speculative futures to ethical and legal issues.
- * Coordination of IRiS website content, social media accounts, and media relations.
- * Contributing to proposal writing efforts for programmatic and infrastructural grants at federal agencies and private foundations as well as fundraising efforts through the UC Foundation.
- * Assistance with long-term institute planning, including helping to prepare content for and participate in discussions during meetings with the External and Internal Advisory Boards.
- * Efforts to support our commitment to diversity, equity, and inclusivity in all of the institute’s activities.
- * Assistance with the coordination of External partners.

The postdoctoral fellow will also have the opportunity to engage in scholarship and professional development in their discipline and in interdisciplinary research practices and management, with an annual discretionary budget (\$5,000) to support related travel and/or research expenses. Time spent on research versus IRiS activities will depend in part on alignment between the postdoc’s research focus and institute programming, but we expect a minimum of 50% of the postdoc’s time will be spent on their own research and scholarship.

The postdoctoral fellow will be mentored by the IRiS

Director (Dr. Nathan Morehouse) and a faculty mentor of their choice within their discipline, with additional support from the IRiS Leadership Team, a group of 8 faculty and staff members with diverse disciplinary experience.

The position is a 1-year contract, with a starting salary of \$47,500, including benefits, renewable for up to 1 additional year (2 years total) contingent on positive annual performance evaluations. Further funding beyond this initial 2 years will depend on success at garnering additional sources of external funding.

Minimum Qualifications: Doctoral degree in a field relevant to sensing research and/or interdisciplinary studies, including, but not limited to:

- * Anthropology
- * Biology
- * Biomedical Engineering
- * Chemistry
- * Computer Science
- * Education or Education Research
- * Electrical Engineering
- * Ethics
- * History
- * Humanities
- * Interdisciplinary Studies
- * Literary Studies
- * Mathematics

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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>

UCollege London ComputationalPhylogenomics

Research Fellow in computational phylogenomics in University College London Ref: B02-05522 Hours: Full Time Salary: Grade 7 $\dot{y}_L \frac{1}{2} 40,524 - \dot{y}_L \frac{1}{2} 48,763$ per annum including London Allowance Closing Date: 2 September 2023

Duties and Responsibilities

The post holder will join the team of Professor Ziheng Yang FRS and Dr Asif Tamuri in UCL to work in the areas of computational phylogenomics and molecular evolution. The successful candidate will become a member of a multidisciplinary research team at the interface of evolutionary genomics, bioinformatics, computer science, and computational statistics. They will implement HPC algorithms to greatly speed up phylogenetic likelihood calculations in the PAML program package (Yang2007 Mol Biol Evol 24:1586-1591) and to develop novel models and methods for phylogenetic analysis of genome-scale datasets. They are expected to be a com-

petent C/C++ programmer with experience in scientific computing and a keen interest on using statistical and computational methods to address important questions in evolutionary genetics and genomics. Knowledge of statistical inference (maximum likelihood and Bayesian inference) or phylogenetics, though not essential, is a big advantage.

The post is an open-ended contract with a funding end date of 15 March 2027 in the first instance. The post is funded by the BBSRC for three years. Starting date will be on 16 March 2024 or as soon as possible afterwards. Salary will be commensurate with experience on UCL grade 7 (i.e. $\frac{1}{2}$ 40,524 to i.e. $\frac{1}{2}$ 48,763 pa including London allowance).

Key Requirements

We seek a research scientist with expertise in C/C++ programming. Expertise in computational phylogenetics or statistical inference (ML, Bayesian, MCMC) is highly desirable although not essential.

A PhD (or working towards a PhD) in one of the following areas is essential: computational science (e.g., C/C++ programming for HPC), statistical inference, and phylogenomics and population genomics. Individuals with a biology PhD are invited to apply if they can demonstrate strong computational/statistical skills. Ability to work in a multi-disciplinary collaborative environment is essential, as is fluency with Linux. A proven track record of effective research will be required.

Please note: Appointment at Grade 7 is dependent upon having been awarded a PhD; if this is not the case, initial appointment will be at research assistant Grade 6B with payment at Grade 7 being backdated to the date of final submission of the PhD thesis (including corrections).

Further Details

A job description and person specification can be accessed at the link at the bottom of this message. Please ensure you read these carefully before applying for the post.

If you have any queries about the role, please contact Professor Ziheng Yang FRS at z.yang@ucl.ac.uk or Dr Asif Tamuri Asif Tamuri at a.tamuri@ucl.ac.uk.

Please follow link below to find out about our commitment to Equality, Diversity and Inclusion, and to apply for the job <https://www.ucl.ac.uk/work-at-ucl/search-ucl-jobs/-details?nPostingId=6127&nPostingTargetId=13754&id=Q1KFK026203F3VBQBLO8M8M07&LG=-UK&languageSelect=UK&mask=ext> Ziheng Yang <z.yang@ucl.ac.uk>

“Yang, Ziheng” <z.yang@ucl.ac.uk>

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UCopenhagen ComputationalPaleoecology

Postdoctoral fellow in computational paleoecology at the Globe Institute (University of Copenhagen)

We are looking for a postdoctoral researcher specializing in evolutionary, ecological and/or environmental genomics to join the Racimo group in the Section for Molecular Ecology and Evolution at the Globe Institute, University of Copenhagen. The position is funded by the ERC and is limited to 2.5 years, commencing 1 December 2023 or as soon as possible thereafter.

The project

Radical changes in the Earth's biome have occurred over the past 30,000 years, with consequent changes in species ranges and connectivity. How can we best model species dynamics over thousands of years of ecological change? And what are the main environmental drivers underlying these dynamics? There is now a wealth of historic and prehistoric records documenting these processes, including pollen and fossil records, ancient genomes and sedimentary DNA, but a lack of tools limit the insights that can be derived from these records. Our ERC-funded research project - called Spatiotemporal Analytical Modelling for Paleobiology (STAMP) - will serve to link these disparate types of paleobiological records with the methodological tools of spatiotemporal process analysis. As proof of principle, we will analyze various types of paleobiological datasets from northern Eurasia and northwest North America. The postdoctoral fellow will work on one of the first work packages of this project, particularly focusing on megafauna range dynamics in the Arctic and taiga.

Your job

The first year of the postdoctoral project will involve a period of co-supervision with Dr. Yucheng Wang (University of Cambridge) - an expert in sedimentary genomics. The first focus of the postdoctoral fellow job will involve computationally collecting and assembling a database of paleobiological records from select megafauna species of the Arctic and taiga. This will include both newly obtained data by Dr. Wang and

collaborators, as well as existing public paleobiological records, spanning the last ~30,000 years.

Later on in the project, in cooperation with other computationally-trained members of the Racimo group, the postdoctoral fellow will analyze the combined dataset and test different methods to estimate species range dynamics and mobility, as well as to find explanatory factors for past species presence and absence, given the fossil and sedimentary DNA evidence. The postdoctoral fellow will also be co-advised by Prof. Finn Lindgren - chair of statistics at the University of Edinburgh and an expert in spatiotemporal statistical modelling.

The fellow's tasks will include:

- Close work in collaboration with sedimentary coring experts and paleoecologist
- Computational retrieval of existing paleobiological records (fossil and DNA) for select species
- Application of existing models for species range distribution and mobility on the assembled dataset
- (possibly) Development of new, improved paleocological models, given the obtained results

Profile

We are looking for a highly motivated and enthusiastic scientist with the following competencies and experience:

Essential experience and skills:

- You have a PhD in paleoecology, evolutionary or environmental biology, or related discipline
- You have experience analysing genetic sequencing data, ideally from environmental or sedimentary samples
- You have some programming experience, e.g. in R or Python

Desirable experience and skills:

- You have some experience analysing palaeobiological datasets and interacting with paleobiological databases
- You have experience in ecological or paleoecological modelling (ideally with a focus on spatial or spatiotemporal modelling)
- You have effective communication skills and proficiency in English, written and spoken

Place of employment

The place of employment is at the Section for Molecular Ecology and Evolution, Åster Farimagsgade 5A, 1353 Copenhagen. We offer creative and stimulating working conditions in a dynamic and international research environment and our research facilities include

state-of-the-art laboratories and ancient DNA facilities.

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: <http://www.globe.ku.dk/> < <http://www.sund.ku.dk/> >.

The Globe Institute is committed to creating an inclusive and diverse environment where employees and students can belong and thrive. See website < <https://globe.ku.dk/about/diversity-programme/> > for more information. All qualified applicants will receive full

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UdeSaoPaulo Macroevolution

#Post-doctoral fellowship on interspecific competition at the local scale at deep time.

The laboratory of Macroecology and Macroevolution (LabMeMe) at Universidade de São Paulo, Brazil, is seeking for a motivated postdoctoral fellow to work on a project entitled “The role of interspecific competition at the local scale at deep time”. The main goal of this project is to investigate if we can detect the signal of competition and the geographical pattern of clade-substitution at the local scale at deep time. Different lineages of mammals, in particular families within Carnivora, will be targeted as the study systems. The fellowship is initially designed for 2 years but might be extended.

#Project abstract: Most studies that seek to understand species diversification in deep time scales, including those focused on understanding the role of clade competition, have been done at large spatial scales (a few exceptions exist). Although this is the typical approach in macroevolutionary studies, species interactions happen at local scale, and the large-scale patterns that we described should emerge from mechanisms acting at the local scale. In this project, we will use fossil occurrences

to investigate how biodiversity dynamics at the local scale map to the dynamics described at large spatial scales. Different families of Carnivora will be used as model systems because of data availability and because those lineages have been and will be also studied at large scale by my study group. The main goal of this project is to investigate if we can detect the signal of competition and the geographical pattern of clade-substitution at the local scale at deep time. The project also aims to develop a framework that will allow us to compare the signature of different diversification dynamics at local and regional (continental) spatial scales.

#Desired qualifications and skills include:

a PhD in evolution, ecology, paleobiology or related fields.

strong quantitative background

Knowledge of at least one programming language (R, Python, or others).

#Application Instructions:

Applicants must submit, in a single pdf, the following information: (1) a curriculum vitae; (2) a description of relevant research experience and motivation/interest in the current position (2 pages maximum); (3) contact information (e-mail addresses) for at least two professional references.

The positions are open to Brazilian and foreign citizens. The selected candidates will receive a FAPESP postdoc fellowship - current salary of R\$ 9.047,40 per month. The candidate will also receive 15% of its annual income for research expenses.

Deadline for applications is October 1st 2023. Reference letters will only be requested for applicants under serious consideration. All application material and questions regarding the position should be sent by email to Tiago Quental: tbquental@usp.br

Tiago Bosisio Quental <tbquental@usp.br>

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UGeorgia SticklebackSexDetermination

Postdoc position in the White lab at the University of Georgia

Our lab combines molecular genetics, evolutionary genetics, and genomics to investigate how genetic sex determination evolves. We work with stickleback fish as a model system, which have multiple independently evolved sex chromosomes to address these fundamental questions. The threespine stickleback fish is a leading genetic model organism, with a well-assembled genome, including a fully assembled Y chromosome, and tools for efficient functional genetics.

The postdoctoral researcher will have the opportunity to lead projects investigating the genetic and developmental mechanisms underlying male sex determination in both the threespine stickleback fish and the brook stickleback fish. Both species have independently evolved duplications of anti-Mullerian hormone that have gained function as a male sex determination gene. These species offer a unique opportunity to explore the genetic basis of convergent evolution among closely related species. The postdoctoral researcher will have considerable flexibility in their direction of research under this topic.

Successful candidates must have a doctoral degree or equivalent in the life sciences and will have a strong record of research productivity.

The White lab is in the Genetics Department that houses over 30 faculty with diverse molecular and evolutionary genetics research programs (<https://www.genetics.uga.edu>). The White lab also frequently interacts with a broader community of evolutionary biologists across multiple life sciences departments. The University of Georgia is located in Athens, GA, a vibrant and affordable college town that is consistently ranked one of the top places to live.

To apply please email Mike White (whitem@uga.edu) a single PDF that contains: (1) a short statement (~1 page) that describes your research accomplishments and motivation for applying, (2) a CV, and (3) contact information for two references.

Informal inquiries are also welcome.

For more information about research in our lab, please visit: <https://mikewhitelab.org> Mike White Associate

Professor Department of Genetics University of Georgia
Michael White <whitem@uga.edu>

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UHaifa FlowerEvolution

Flowers with complicated structures and their pollina-
tors (bees and sunbirds): From the evolutionary func-
tional definition, cognition, and learning to the pollina-
tion networks:

A post-doctoral fellow is needed for this research.

The training will occur within the Department of Evolu-
tionary and Environmental Biology, University of Haifa,
Israel. The research program will include behavioral
experiments within the laboratories dealing with the
evolutionary ecology of insects (Prof. Tamar Keasar)
and birds (Dr. Shai Markman). Experience in working
with bees or birds is an advantage, but not a must.

For further details, please contact: Tamar Keasar,
Department of Biology and Environment, University
of Haifa - Oranim, Israel. Phone 972(0)52-8718860
tkeasar@gmail.com

Shai Markman <shaimarkman@gmail.com>

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UHelsinki PopulationGenomics

[https://jobs.helsinki.fi/job/Helsinki-Postdoctoral-
researchers-in-population-genomics/776664102/](https://jobs.helsinki.fi/job/Helsinki-Postdoctoral-researchers-in-population-genomics/776664102/) The
Faculty of Agriculture and Forestry invites applications
for 1-2 postdoctoral researchers in population genomics
to join forest genomics research group.

Postdoctoral positions up to 36 months are available
in the Department of Forest Sciences, University of
Helsinki, Finland to work with Associate Professor Tanja
Pyhäjärvi ([https://www.helsinki.fi/en/researchgroups/-
forest-genomics](https://www.helsinki.fi/en/researchgroups/-forest-genomics)).

Environment Current research topics of the group in-
clude plant population genomics, adaptive regulatory

and structural variation in forest tree genomes, forest
genetic resources, genomics of forest tree breeding and
conifer reproductive system evolution

We offer a scientific environment that is enthusias-
tic about plant evolutionary genetics, a possibility to
develop your genomics and bioinformatics skills and
initiate international collaboration. Within Europe,
we collaborate closely with other forests geneticists
via the Horizon 2020 project FORGENIUS as well
as via EVOLTREE and Nordic SNS networks. The
group is a part of Centre of Excellence in Tree Biol-
ogy ([https://www.helsinki.fi/en/researchgroups/centre-
of-excellence-in-tree-biology](https://www.helsinki.fi/en/researchgroups/centre-of-excellence-in-tree-biology)).

The post-doctoral fellows will work on two main projects,
details depending on their personal skills and interest:

- Assessing genetic diversity and adaptability of Euro-
pean in situ collection of forest genetic resources ([https://
www.euforgen.org/](https://www.euforgen.org/)) at local and species level. Popula-
tion genetic forward simulations and cross-validations to
investigate the effect of e.g., genome size, time scale, spa-
tial scale of disturbances, and population size changes
on the performance of the multidimensional indexes
used to describe the collection. The work will be part
of a project FORGENIUS (<https://www.forgenius.eu/>)
where genetic data is integrated with remote sensing,
physiological and environmental information. This posi-
tion requires interest and/or experience on e.g., popula-
tion genetic simulations, conservation genomics, multi-
variate analysis, and/or machine learning methodology.
The work will be conducted in close collaboration with
other FORGENIUS partners across Europe.

- Understanding the evolutionary background of conifer
polyembryony in a Research Council of Finland funded
project GENEOPIN: “Genetic determinants of embryo
destiny in a polyembryonic seed - mortality, inbreed-
ing depression and sibling rivalry in a pine nutshell ”.
Population genetic analyses to evaluate compensation,
competition and post-zygotic self-incompatibility sys-
tem models of polyembryony evolution in Scots pine
(*Pinus sylvestris*). This position requires interest in
plant reproductive system evolution, population genetic
analyses, bioinformatics and model evaluation. The
work will be conducted in close collaboration with Nat-
ural Resources Institute Finland (Luke) and a Doctoral
Researcher working on the gene expression patterns of a
developing seed. The work will consist mostly of compu-
tational work, but also some empirical and laboratory
work including collecting seed and conducting crossings
in Luke forest tree breeding station in southern Finland.

Qualifications The successful applicants should have a
doctoral degree, recorded scientific expertise and interest
in evolutionary, population and/or conservation genet-

ics. Experience in bioinformatics, population genetic analyses and quantitative genetics is an advantage. Research questions can be adjusted according to applicants interests and skills. The duties include a small amount of teaching and supervising students.

The salary of the postdoctoral researcher will be based on level 5 of the demands level chart for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component based on personal performance. The starting salary of the postdoctoral researcher will be ca. 3300-3700 euros/month, depending on the appointee's qualifications and experience. A six-month trial period will be applied and the workplace of the positions is Helsinki.

Finland is one of the most livable countries, with a high quality of life, safety and excellent education system. The successful candidate will receive the benefits provided by the University of Helsinki to university employees, including occupational health care services, and obtain access to high-quality public affordable childcare services and schools.

HOW TO APPLY Please submit your application as a single pdf file in English using the

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UIdaho ConservationGenomics

Postdoc Position in Conservation Genomics and Molecular Ecology

University of Idaho

We are excited to recruit a Postdoc with expertise in Conservation Genomics and Molecular Ecology to join our research team at the University of Idaho (UI), Moscow Campus. The postdoc will join a dynamic team of faculty, research scientists, and graduate students focused on conservation genomic and molecular ecology research projects across the Western US and around the world. Our team also has the goal of providing training for local and international students and outreach to managers and policy makers. We have already developed strong relationships and have current funded genomic projects with state, federal, tribal

and international partners. This postdoc would work with the collaborating faculty listed below to conduct a variety of policy and management relevant projects in wildlife conservation and management, fish ecology and fisheries management, and environmental monitoring. The postdoc would also work with faculty to write grant proposals for future funding. Other responsibilities include student mentoring and training related to next-generation sequencing, transcriptomics, eDNA monitoring, diet metabarcoding and associated bioinformatic analyses. Potential projects include whole genome resequencing studies of pygmy rabbits, Northern Idaho ground squirrels and Galapagos bats, diet metabarcoding of Northern Idaho ground squirrels and sage grouse, and development of eDNA metabarcoding survey methods for Idaho aquatic invertebrates. The postdoc will have access to UI resources such as genomics and computational core facilities and collaborative research groups in the Institute for Interdisciplinary Data Sciences (IIDS) < <https://www.iids.uidaho.edu/> >, the Institute for Modeling Collaboration and Innovation (IMCI) < <https://imci.uidaho.edu/> > and the Idaho EPSCoR-NSF Genes by Environment (GEM3) < <https://www.idahogem3.org/> > program. Funding is available for 1 year with opportunity to extend beyond one year. We would ideally like to find a candidate who can start by Oct 2023. Priority application deadline is August 14 and applications will be accepted until the position is filled. The UI is an equal opportunity and affirmative action employer committed to assembling a diverse, broadly trained faculty and staff. Women, minorities, people with disabilities and veterans are strongly encouraged to apply. Salary ~ \$50-60K with retirement and health benefits.

Please submit a letter of interest, CV and contact information for three references to lwaits@uidaho.edu

Recruitment Team: Lisette Waits and Chris Caudill - Department of Fish and Wildlife Sciences and Bioinformatics and Computational Biology Program (BCB), College of Natural Resources, and Paul Hohenlohe - Department of Biological Sciences, BCB Program, College of Science

Contact Lisette Waits lwaits@uidaho.edu with questions.

LISETTE WAITS Distinguished Professor Department of Fish and Wildlife Sciences College of Natural Resources [University of Idaho] lwaits@uidaho.edu 208-885-7823 875 Perimeter Drive MS1136 | Moscow ID 83844-1136

www.uidaho.edu/cnr/faculty/waits “Waits, Lisette (lwaits@uidaho.edu)” <lwaits@uidaho.edu>

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UInnsbruck EvolutionAlpineOrganisms

PostDoc: UInnsbruck

MOLECULAR ECOLOGY, DEPARTMENT OF ECOLOGY, UNIVERSITY OF INNSBRUCK 50% PostDoc position

We seek to hire a 50% PostDoc (20h/week). This is a 6-year position at the Molecular Ecology Group of the Department of Ecology / University of Innsbruck, starting from September 2023. Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at:

<https://molecular-ecology.at/research-topics/> Main tasks: research, publishing, participation in organisation and administration, independent teaching (4h/week). Required qualifications: completed relevant doctoral or PhD studies (biology or comparable discipline); proven research experience with organismic ecology, preferably on arthropods or vertebrates; creative problem-solving ability, ability to work in a team, organisational talent, ability to work under pressure.

Salary The annual gross salary is Euro 30464 The contract includes health insurance and 5 weeks of holidays annually.

How to apply Please apply at: https://lfuonline.uibk.ac.at/public-karriereportal.details?asg_id.in=13699 Deadline: 22 August 2023. Please include in the application: how you meet the required qualifications, curriculum vitae, complete list of publications. The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-employment background check.

The research institution and its environment Detailed information about the Molecular Ecology Group can be found at <https://molecular-ecology.at>. The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers

a vibrant research atmosphere. It has close to 30,000 students and 4,500 staff members. Innsbruck is situated in the Alps and very close to Switzerland, Germany, and Italy; scenery and outdoor recreation are fantastic.

More information needed? For more information, please contact:

Birgit C. Schlick-Steiner, Birgit.schlick-steiner@uibk.ac.at Department of Ecology University of Innsbruck Technikerstr. 25 6020 Innsbruck, Austria <https://molecular-ecology.at/birgit-c-schlick-steiner/youtube.com/watch?v=bV.1Qz5XX.8>

“Schlick-Steiner, Birgit Christiane” <Birgit.Schlick-Steiner@uibk.ac.at>

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UMainz Germany InsectCognitionEvolution

Postdoctoral Researcher Position at the iomE Mainz, Germany: Uncovering the Evolution and Molecular Regulation of Insect Cognition

How do insects learn to find their way around a maze?

When does it make sense for them to forget?

What are the molecular bases of learning and forgetting in these social insects?

How are those genes regulated on an epigenetic level? Join us as a postdoctoral researcher at Johannes Gutenberg University of Mainz, Germany, investigating the molecular foundations of cognition in *Cataglyphis* ants. Uncover the complexities of insect navigation and the equilibrium between memory formation and forgetting. Partnering with Dr. Inon Scharf (Univ Tel Aviv, Israel) and Dr. Romain Libbrecht (Univ Tours), our research, funded by the German Science Foundation (DFG), builds upon pioneering experiments investigating (epi-)genetic influences on ant cognition during spatial orientation.

With a PhD in evolutionary biology, molecular genomics, or bioinformatics and a good publication record, you possess what is needed for this position. Funding is secured over 20 months, and the position could potentially be extended. Be part of the Institute of Organismic and Molecular Evolution at Johannes Gutenberg University in Mainz and a team of researchers working on

the evolution of gene regulation <https://www.genevortg.de/>, combining behavioral experiments, evolutionary theory, molecular biology and bioinformatics. Applications are accepted until October 1st, 2023. To apply, send a letter of motivation, CV with publication list, and contact details of two referees to Susanne Foitzik at foitzik@uni-mainz.de.

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hißsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

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

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UMainz Germany SulawesiTarsierEvolution

Dear everybody,

If you are interested in researching questions around phylogeography and demography of Sulawesi tarsiers, please reach out. Here are some details:

General information

Offer title: Postdoctoral position: Phylogeography of Sulawesi tarsiers Number of positions: 1 Workplace: University of Mainz (up to 50% mobile working possible) Type of Contract: Scientist TV-L 13 Contract Period: 12 months

Expected date of employment: 1 October 2023 or as soon as possible thereafter Proportion of work: Full time

Application deadline: Applications will be reviewed and processed upon receipt. Please don't apply after September 10th 2023.

Missions In the past four decades, the recognition of only one Sulawesi tarsier species (*T. spectrum*) was overturned by the discovery of a stunning morphological, behavioral, and genetic diversity of Eastern tarsiers resulting in the current count of 12 species. The diversity is closely linked to the islands' complex geological past. Sulawesi is located in the collision zone of major tectonic plates. The postdoc will be involved in different projects exploring how tarsiers colonized the island with a special focus on tarsier demography. All projects are

based on genetic or genomic data. Skills

PhD, or comparable degree, in Biology or Evolutionary Anthropology. I am looking for a candidate with curiosity on species evolutionary past and how this is linked to geological past of the area. Good understanding of genetics is required, experience with NGS data is an advantage.

If you are interested, please write an email and attach your CV to lhageman@uni-mainz.de

“Hagemann, Laura” <la.hagemann@web.de>

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UMinnesota EvolutionaryGeneticsSymbiosis

Postdoc: Coexpression networks and symbiosis.

Univ of Minnesota, Peter Tiffin

A postdoctoral position is available to work on an NSF-funded project to investigate genetic basis and evolution of among-host variation in symbiotic performance. The work will involve collection and analyses (differential expression and coexpression networks) of host-symbiont dual-seq data from twenty host species (*Medicago* sp.) and two symbiont species (*Sinorhizobia*). The comparative analyses will build on extensive characterization of the genomics of the symbiosis between *M. truncatula* and *S. meliloti* that has served as a model for evolutionary and functional genetics of legume-rhizobia symbiosis. The project is a collaboration with Liana Burghardt (Penn State), Katy Heath (U Illinois), Barney Geddes (North Dakota State), and Tami McDonald (St. Kate's).

The start date is flexible. Funding is available for up to three years.

The candidate must have a Ph.D. and either experience with or a strong desire to learn about evolutionary analyses.

To apply, please submit a brief cover letter describing your relevant interests and experiences and CV (with contact information for two professional references).

Application materials must be submitted through the Univ of Minnesota Jobs Site, job number 357326. Review of applicants will begin Oct 15.

Please email me with any questions: ptiffin@umn.edu

Peter

Peter Tiffin <ptiffin@umn.edu>

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UNebraska Lincoln Evolutionary Genomics Bioinformatics

A Postdoctoral position is available in the Bioinformatics and Computational Biology lab (<http://bcb.unl.edu/>) of University of Nebraska - Lincoln (UNL) to work on plant/microbial genomics projects. The lab is affiliated with the Department of Food Science and Technology (FDST) and Nebraska Food for Health Center (NFHC). We have ongoing genome sequencing projects funded by USDA (<https://www.ars.usda.gov/research/project/?accnNo=444058>) and need an expert in plant comparative genomics, phylogenetics, and DNA sequencing data analysis. These genome projects are collaborating with research groups in USDA and in Europe. The lab is also funded by NIH to develop bioinformatics tools for genomic data mining in microbiome. The postdoc researcher will have opportunities to work with collaborators and have choice to participate in different projects depending on his/her interests. The lab also encourages members to explore/develop their own research projects within the broad Evolutionary Genomics and Bioinformatics research domain.

Duration: The initial appointment is for one year, with renewal based on performance. Funding is available for three years.

Qualifications: Applicants should have a PhD or will have completed a PhD before the position starts in bioinformatics, genomics, evolutionary biology, plant genetics, or a related discipline. The applicants are expected to have had published first-authored research papers in reputed journals, and are proficient with programming in Python/C/Perl and R and UNIX. The candidate should have extensive experience working with plant/microbial genome data and gene family analysis using phylogenies. Experience in machine learning and software development is desired but not required.

Working Environment: UNL is a leading research and land grant University in the US. Its Agriculture Science ranks 64, Biotechnology and Applied Microbiology ranks 138, and Plant Science ranks 150 in the world according to U.S News. NFHC (<https://foodforhealth.unl.edu/>)

is a center established in 2016 with researchers from University of Nebraska-Lincoln, the University of Nebraska Medical Center and the University of Nebraska at Omaha to tie gastrointestinal and biomedical research to agriculture, plant and animal breeding, and genetics. Lincoln is among top 10 state capital cities to live in according to <https://wallethub.com/edu/best-state-capitals/19030>: #4 overall rank, #9 in affordability and #9 in quality of life.

Start Date: 10/1/2023 but flexible.

Salary: A highly competitive salary (\$45,000~\$65,000) plus 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 PDF of up to three publications to Yanbin Yin (yyin@unl.edu). Review of applications will begin immediately and continue until the position is filled.

Yanbin Yin, PhD Professor Department of Food Science and Technology Nebraska Food for Health Center 253 Food Innovation Center University of Nebraska - Lincoln yyin@unl.edu yanbin.yin@gmail.com <http://bcb.unl.edu/> < <http://bcb.unl.edu/> >

Yanbin Yin <yyin@unl.edu>

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UParisSaclay Experimental Evolution

A post-doctoral researcher position (18 months) is available to work in collaboration with both of our groups from Nov 2023. Application deadline: Sept 15 2023.

The objective of this post-doctoral project is to design, run, and analyze a series of experimental evolution studies in which different environmental factors (such as temperature, food, or chemicals) are manipulated to distinguish the roles of adaptation, plasticity, and genetic constraints on the evolution of the transcriptome.

We are looking for a motivated early career evolutionary biologist, with a PhD degree obtained after 2018. Previous experience with experimental evolution would be appreciated, including lab work with micro/macro-organisms, basic molecular biology (DNA and RNA extraction), and population genetics.

The position will be part of a 3-year project funded by the French National Research Agency (ANR). The research consortium includes 2 PIs (Arnaud Le Rouzic and Anne Genissel), a PhD Student, an ANR-funded technician, and the current post-doc. This project aims at understanding and predicting the evolution of transcriptomes under stable and fluctuating selection combining both theoretical and empirical approaches. The post-doc will be co-advised by both PIs. He/she will be formally based at EGCE (Institute for Ecology and Evolution, IDEEV), and will perform the experimental work at BIOGER (Agro-Campus). Both institutes offer an exciting and active scientific life; they are located 3 km apart, on the new research campus of Paris-Saclay, 35 km south of Paris.

Full ad:

http://www.egce.cnrs-gif.fr/wp-content/uploads/2023/08/Ad_EN.1.3.pdf Application web site:

<https://emploi.cnrs.fr/Offres/CDD/UMR9191-ARNLER-004/Default.aspx?lang=EN> Informal inquiries to:

arnaud.le-rouzic@universite-paris-saclay.fr
anne.genissel@inrae.fr

Arnaud LE ROUZIC CNRS Researcher IDEEV - EGCE
12 Route 128 [<http://www.universite-paris-saclay.fr/>]
91190 Gif-sur-Yvette

Arnaud Le Rouzic <arnaud.le-rouzic@universite-paris-saclay.fr>

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UppsalaU BeePopulationGenomics

Postdoctoral research position in bee population genomics

A postdoctoral research position is available in Matthew Webster's research group to carry out a project aiming to uncover the genetic basis of local adaptation in honeybees. We will generate and analyze whole-genome sequences from an extensive collection of honeybees that are being sampled throughout Europe. The sequence data will be analyzed together with associated morphological measurements and environmental parameters to identify genotype-environment associations, with the goal of uncovering genes involved in local adaptation

and predicting the effects of future climate change on resilience of honeybee populations. The project will also involve analysis of experimental evolution populations and experimental crosses designed to reveal the genetic basis of adaptation to climate.

The position is connected to the Better-B project (www.better-b.eu), which has an overarching aim to improve the resilience of beekeeping to abiotic stresses such as climate change, habitat loss and hazardous chemicals. The Better-B consortium comprises 18 partner organizations across Europe and is funded by European Union through Horizon Europe. The project involves extensive collaboration within this consortium.

The research will mainly involve bioinformatic/statistical analyses of next-generation sequence data. Sample collection, DNA extraction and sequencing library prep may also be involved.

Research in Matthew Webster's group (www.websterlab.net) is focused on evolutionary genomics and population genomics, primarily in bees, addressing questions including the genetic basis of local adaptation and species divergence, conservation genomics, and the evolution of mutation and recombination rates. There will also be opportunities for the successful applicant to work on these topics. We benefit from collaboration with the groups of Profs. Kerstin Lindblad-Toh and Leif Andersson in the same department and with the genome sequencing platform at SciLifeLab, housed in the same building.

Formal requirements and evaluation The candidate must hold a Ph.D. degree or a foreign degree equivalent to a PhD degree in a relevant field. The candidate must be skilled in bioinformatics and statistics, with proficiency in analysis of next-gen sequencing data and a strong interest in evolutionary genetics. The candidate is expected to both take own initiatives and collaborate with other group members, as well as external collaborators. Excellent communication skills, a high level of motivation and good spoken and written English is required. Finally, significant weight will be given to personal suitability.

The employment is available for a period of two years with possibilities for extension.

For further information about the position: please contact Professor Matthew Webster, matthew.webster@imbim.uu.se Informal enquiries are welcome.

To apply for the position please visit the announcement on the Uppsala University website: <https://www.jobb.uu.se/details/?positionId=653276> Deadline for application 25 September 2023

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

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@OzMMSSG

Co-chair IUCN Marsupial & Monotreme Species Specialist Group

Deputy Academic Director UQ Hidden Vale Research Centre

Senior Editor Cambridge Prisms Extinction

Diana Fisher <d.fisher@uq.edu.au>

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UQueensland QuantitativeEvolutionEcol

Title: UQueensland.QuantitativeEvolutionEcology

A 2.75 year full-time Postdoctoral research position in Evolutionary Ecology is available in Brisbane, Australia.

We are seeking a postdoc with quantitative skills to join our ARC-funded project investigating mechanisms and constraints associated with evolution of age at maturity and semelparity in animals and plants, sexual conflict in animals, and conservation implications.

The postdoc will have a track record of high quality publications, experience in coding in R and modelling to address scientific questions in evolution, a background knowledge of vertebrate, arthropod, and plant biology, and ability to coordinate research projects and manage databases.

Project team: Diana Fisher (Chief Investigator, University of Queensland), Prof. Roberto Salguero-Gomez (Partner Investigator, University of Oxford, UK) and Prof. Hanna Kokko (collaborator, University of Mainz, Germany).

Please Apply here:

<https://www.seek.com.au/job/69194629> Contact: Assoc. Prof. Diana Fisher d [dot] fisher (@) uq [dot] edu [dot] au

Dr Diana Fisher | Associate Professor Goddard Building room 329 | School of Environment University of Queensland | St Lucia 4072 Qld, Australia

d.fisher@uq.edu.au

<http://researchers.uq.edu.au/researcher/397> | 0000-0002-4017-3710 Diana_uqmammals @DianaF1080

USaoPaulo MyxozoaEvolution

Postdoc: Genomics and Bioinformatics of Myxozoa Fellowship provided by São Paulo Research Foundation - FAPESP

The Department of Ecology and Evolutionary Biology of the Federal University of São Paulo-UNIFESP offers a post-doctoral fellowship position (for up to 42 months) to contribute to the development of the thematic project FAPESP “Myxozoa - cnidarians adapted to parasitism - integrating different tools to investigate the diversity, evolutionary history, development, and host-parasite interactions”. The selected candidate will work at the Federal University of São Paulo in Diadema (address: Prof. Artur Riedel 275, 09972-270, Diadema, São Paulo State, Brazil) where he/she will develop research on genomes of South American freshwater myxozoan parasites (Cnidaria: Endocnidozoa: Myxozoa). This opportunity is open to candidates of any nationality. The selected candidate will receive a FAPESP’s Post-Doctoral fellowship in the amount of R\$ 9.047,40 monthly and a research contingency fund, equivalent to 10% of the annual value of the fellowship which should be spent on items directly related to the research activity. For more information see <https://fapesp.br/en/postdoc>. The minimum requirements: 1) Experience in designing and processing next-generation sequencing (NGS) data; 2) Experience in bioinformatics analyses from next-generation sequencing (NGS) results aiming at evolutionary analyses

3) Communication and writing skills in English; 4) Good history of scientific publications as lead author. 5) According to FAPESP rules, the candidates for post-doctoral fellowships should have completed their doctoral programs no more than seven years prior to application (<https://fapesp.br/en/postdoc>).

Work Location Instituto de Ciências Ambientais, Químicas e Farmacêuticas, Universidade Federal de São Paulo-Unifesp, Street Professor Artur Riedel, 275, Diadema, São Paulo, Brazil. Postal Code 09972-270.

Application must be done by E-mail to toadriano@unifesp.br

Application Deadline 30 Aug 2023

Prof. Dr. Edson A. Adriano

Professor of Parasitology Department of Ecology and Evolutionary Biology Federal University of São Paulo-UNIFESP

Diadema - SP - Brazil

Professor de Parasitologia Departamento de Ecologia e Biologia Evolutiva Universidade Federal de São Paulo - UNIFESP Diadema - SP - Brasil

É obrigatória a utilização do e-mail @unifesp em todas as correspondências oficiais, institucionais e no acesso aos equipamentos e sistemas da Universidade Federal de São Paulo, conforme a portaria Reitoria n. 1182/2022 que define a Política de e-mail institucional da Unifesp.

“edapadriano@gmail.com” <adriano@unifesp.br>

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USouthFlorida
TasmanianDevilGenomics

POSTDOCTORAL RESEARCHER

University of South Florida

Department of Integrative Biology

We are seeking a postdoctoral researcher for August 1, 2024 to work on genomics, transcriptomics, and machine learning in Tasmanian devils and devil facial tumor disease (DFTD). The NSF-funded international collaboration builds on 20+ years of research tracking the spread of this unique transmissible tumor across Tasmania and consequent endangerment of the iconic Tasmanian devil. A chromosome-level reference genome assembly is available for the devil, and population genomic data have already been collected for >3500 Tasmanian devil individuals. The successful applicant will have an unprecedented opportunity to analyze thousands of devil and tumor samples taken throughout epizootic progression to use GWAS, eQTL mapping, machine learning, and

other approaches to understand the repeatability and predictability of the genotype-phenotype relationship in wild populations.

The position is centered in the lab of Dr. Mark Margres (<https://www.margreslab.com>) at the University of South Florida in close collaboration with Dr. Andrew Storfer (<https://labs.wsu.edu/storfer/>) at Washington State University. The University of South Florida offers genomic core facilities with state-of-the-art equipment, high-performance computational facilities, and staff support.

Review of applications will begin immediately and continue until the position is filled. A Ph.D. in Biology or a related discipline, combined with genomics and bioinformatics experience, is required. Desired qualities also include a background in machine learning, infectious disease evolution, and/or cancer genomics. Start date is negotiable between June and August 1, 2024. Salary and benefits are competitive. Position is for 1 year, with continuation for an additional year pending satisfactory progress. To apply, please send in pdf format a CV, statement of interest, up to three representative reprints, and names, addresses and emails for three references via email to: Mark Margres (margres@usf.edu).

Mark J. Margres, Ph.D. Assistant Professor Department of Integrative Biology University of South Florida Tampa campus (813)-974-4576

www.margreslab.com

Mark Margres

<margres@usf.edu>

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UTexas Biodiversity

The University of Texas College of Natural Sciences is pleased to announce the 2024 Stengl-Wyer Scholars Competition.

ABOUT THE AWARD Recent Ph.D.s are invited to apply for distinguished postdoctoral positions to study the diversity of life and/or organisms in their natural environments at The University of Texas at Austin (UT), one of the top campuses in the country for this area of research. Funded by the Stengl-Wyer endowment, the Stengl-Wyer Scholars Program provides up to three years of support for talented postdoctoral researchers in the broad area of the diversity of life and/or organisms in their natural environments. Scholars may study any

groups of organisms, at levels from genes to populations to communities to ecosystems and may use any combination of approaches. Scholars will:

?? conduct cutting-edge research over three years;

?? have access to the outstanding core research facilities at UT, including field stations, natural history collections, computational, imaging, and biomolecular facilities;

?? reside locally and have a regular workspace and presence on the main UT campus;

?? primarily focus on research, but in one of the three years, also engage in two semesters of a teaching or outreach effort related to their interests and career goals;

?? participate in biweekly meetings (luncheons) with other Stengl-Wyer Scholars, Fellows or guests; and

?? receive career mentorship.

Scholars are expected to be independent and propose their own research project. The project start date at UT should be between June 1, 2024 and September 30, 2024. Applicants should identify one or more faculty members from UT's College of Natural Sciences (CNS) who will serve as a mentor as well as provide laboratory space to the Scholar. Scholars will be encouraged to interact broadly and collaborate with other faculty, postdocs, and graduate students at UT. 2023 Scholar recipients will receive the following:

?? \$70,000 annual salary plus UT benefits

?? \$10,000 annual allowance for research and travel expenses

?? Up to \$3,000 relocation expenses

ELIGIBILITY Eligible applicants must have completed a Ph.D. or equivalent degree by the projected start date and must not have exceeded 20 months in a full-time postdoctoral position at the time of application deadline. Preference will be given to applicants whose proposed projects broaden the scope of research in CNS and are relevant to the Stengl-Wyer Endowment's mission to explore the diversity of life and organisms in their natural environments. Additionally, preference will be given to applicants not already in residence at UT. Applicants who are non-US citizens or permanent residents must be eligible for J-1 Scholar visa status; the Stengl-Wyer Scholars program cannot support H-1B visa applications. CNS particularly encourages applications from individuals within populations traditionally underrepresented in our disciplines. Our goal is to provide all Scholars with an inclusive and supportive environment in which they may realize their intellectual potential.

For more information: Program Website: [https://-](https://cns.utexas.edu/research/research-initiatives/-stengl-wyer-scholars)

[/cns.utexas.edu/research/research-initiatives/-stengl-wyer-scholars](https://cns.utexas.edu/research/research-initiatives/-stengl-wyer-scholars) Apply Here: <https://-utexas.infoready4.com/#competitionDetail/1907500>
Best,

LESLEY BRUNER, Senior Administrative Program Coordinator | Strategic Research Initiatives The University of Texas at Austin | College of Natural Sciences | utexas.edu

"Bruner, Lesley" <lesley.bruner@austin.utexas.edu>

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UWashington CodEvolutionaryRescue

Subject: Postdoctoral Position on Evolutionary Rescue in Pacific Cod

Dr. Lorenz Hauser's Marine Population Genomics Lab (<https://faculty.washington.edu/lhauser/>) at the School of Aquatic and Fishery Sciences (SAFS) of the University of Washington, seeks to hire a Postdoctoral Scholar in Population Genomics. The position is supported by the Pacific States Marine Fisheries Commission's Gulf of Alaska Pacific Cod Disaster Relief Award on the 'Importance of Peripheral Populations for Climate Adaptation and Productivity in Gulf of Alaska Pacific Cod'. Specifically, the successful candidate will conduct low coverage whole genome resequencing of Pacific cod to investigate the potential for evolutionary rescue of Gulf of Alaska cod by gene flow from peripheral population in the Salish Sea. Selective changes in cod populations of the Salish Sea and the Gulf of Alaska during the mass mortality event caused by the 2016 heat wave will also be investigated. Existing habitat suitability projections under climate change will be modified using physiological tolerances of southern edge populations.

The position is suited for a researcher interested in applying evolutionary and genomic research to practical management, work within an academic environment but with close collaboration with management agencies and provide leadership in project design and development. The successful candidate will work in collaboration with climate modelers, fish physiologists, ecologists and fisheries researchers at federal (NOAA, DFO) and state agencies (WDFW) on evolutionary factors affecting one of the largest commercial fisheries in Alaska. Depending on the candidate's interests, there may also be opportu-

nities to co-apply for additional research funding, and become involved in student projects.

The position will be based at the Marine Population Genomics Lab (<https://faculty.washington.edu/lhauser/>) of the University of Washington's School of Aquatic and Fishery Sciences (SAFS). The lab is part of a larger research group that currently consists of two faculty, four PhD students and one MS student. The group works on the evolutionary and population genomics of marine species, including salmon, cod, herring, sea grass and invertebrates. Exciting new initiatives of the group that may allow involvement of interested candidates are the application of genomic tools in forensic fisheries applications as part of the Center for Environmental Forensic Science (<https://cefs.uw.edu/>), and the use of genomic tools in the management of Atlantic bluefin tuna.

University of Washington Postdoctoral Scholar appointments are for a temporary, defined period not to exceed five years/60 months, including any previous postdoctoral experience. The salary for this position will be \$69,264 per year, or as mandated by a U.S. Department of Labor prevailing wage determination. Postdoctoral scholars are represented by UAW 4121 and are subject to the collective bargaining agreement, unless agreed exclusion criteria apply. For more information, please visit the University of Washington Labor Relations website (<https://hr.uw.edu/labor/>).

Mandatory Qualifications: Candidates will have confirmed Ph.D. at the time of appointment, in a relevant discipline (e.g., population genomics).

Qualifications: - Knowledge of the theory and application of population genomics - Extensive expertise in bioinformatic analysis of large-scale next-generation sequencing data, in particular low coverage whole genome resequencing - Proficiency in population genetic data analysis - Familiarity with programming languages such as R and Python - Reliability, professionalism, scientific rigor, and interest in student mentoring - Strong written and oral communication skills evidenced by publications and talks

Applications will be reviewed on a rolling basis, but those received by September 10, 2023, will be considered as a priority in the first screening. The position will start as soon as possible, but before January 1, 2024. The initial appointment will be 100% FTE for one year, with potential renewal for another eight months.

Application Instructions: All applications should be submitted through Interfolio (<https://apply.interfolio.com/130624>). To apply for this position, please include the following in your application: - A letter of intent ex-

plaining why you are a good candidate for this position. - A current CV - PDFs or DOIs of any published or submitted papers that demonstrate your previous research experience and your rigorous and scholarly approach to science. - Contact information for at least three references in order of

— / —

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

UWroclaw SaigaEvolutionAncientDNA

JOB OFFER - Post-doc (senior assistant) in the group of researchers at University of Wrocław³, Faculty of Biotechnology, Poland

The aim of the project is to study the diversity and evolution of extinct and modern forms of antelope saigas (Saiga) based on genetic analyses.

Project description: <https://projekty.ncn.gov.pl/opisy/-486057-en.pdf> Details: Institute/Department: Department of Bioinformatics and Genomics, Faculty of Biotechnology Position: assistant professor (post-doc) Type of position: research Research area / discipline: biological sciences, bioinformatics, genomics, biochemistry, biotechnology, biomedical engineering Vacancies/positions: 1 Application deadline: 10.09.2023 Expected contest results: September, 2023 Envisaged job starting date: 01.10.2023 or to be determined Duration of employment: up to 24 months Type of contract: full time Salary: PLN 7296 -7608 PLN gross / month

Requirements: 1) PhD degree in the field of exact and natural sciences or engineering and technology obtained not earlier than 7 years before the year of employment in the project. This period may be extended by the time spent on long-term (over 90 days) documented sickness benefits or rehabilitation benefits due to incapacity for work. In addition, this period may be extended by the number of months of leave related to the care and upbringing of children granted on the terms set out in the Labor Code, and in the case of women - by 18 months for each child born or adopted, if this method of indicating breaks in the scientific career is more favorable. 2) Experience in laboratory work on genetic material and/or bioinformatic analysis of data obtained

after sequencing. 3) Experience in the analysis of ancient DNA is welcome. 4) Substantive knowledge in the field of genomics and bioinformatics. 5) Research experience confirmed by participation in conferences and authorship/co-authorship in publications. 6) Ability to work both independently and in a team. 7) Reliability, meticulousness, diligence and responsibility for the entrusted work.

Form of submitting offers and inquiries: pamac@smorfland.uni.wroc.pl Employment conditions: full-time for 1 year with the possibility of extension to 2 years. Possibility of partial remote work. Further details: <https://euraxess.ec.europa.eu/jobs/137276> Martyna Molak <martyna.molak@gmail.com>

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UZurich EvolutionaryGenetics

PostDoc position in evolutionary genetics

I am looking for a PostDoc with a background in evolutionary- or ecological genetics. You should have recently (within the last three years) obtained your PhD degree and have worked in any field of evolutionary genetics/genomics, such as genetic/genomic basis of adaptation or speciation, genetic changes in response to natural selection, etc. in plants or plant-animal interactions. Skills in bioinformatics are welcome, too. Proficiency in English, both orally and written, and prior experience with scientific publishing is required. The tasks of the job are to pursue and develop an own/collaborative research program in evolutionary genetics and to organize the molecular lab in my group, as well as to do some teaching. The initial duration of the employment will be for three years with possible prolongation. I offer a vibrant, collaborative work environment and a competitive salary; earliest starting date is 1st January 2024. Our department is located in the University Botanical Gardens and houses modern molecular and ecological labs, including greenhouses and climate chambers for plant cultivation. The University of Zürich has a broad research coverage of organismal and molecular biology, and Switzerland offers excellent external research funding opportunities, for example through the Swiss National Science Funds.

If you are interested in the job, please send me by e-mail (florian.schiestl@systbot.uzh.ch) a letter describing your

motivation, CV including a list of publications, and e-mail addresses of two academic referees, by 15th of September 2023. Please send all documents in a single file. If you have any further questions, don't hesitate to contact me.

“Florian P. Schiestl” <florian.schiestl@systbot.uzh.ch>
(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<<mailto:golding@mcmaster.ca>>)

VanderbiltU HumanEvolutionGenomics

Postdoctoral position in human evolution and genomics at Vanderbilt

Dr. Amanda Lea at Vanderbilt University is looking for a postdoctoral researcher to work on questions at the interface of evolutionary anthropology and genomics. Work in the lab uses genomic tools to study human evolution, biology, and health. This work is done in partnership with subsistence-level human populations that are currently transitioning to more urban and market-integrated lifestyles, with a focus on how urban exposure across the life course impacts gene regulatory variation and physiology. A complementary focus of the lab is using massively parallel reporter assays to understand causal molecular relationships. To read more about our research, please visit lea-lab.org/publications and lea-lab.org/research.

The applicant should have interests that are aligned with the overall themes of the lab. Available projects will focus on analysis of genomic data, and applicants should expect to spend much of their time engaged in computational work (as well as some wet-lab and/or field work, depending on the specific project). Applicants should thus have a strong quantitative background. Strong data analysis skills, including programming and statistical modeling experience, are essential. Experience with at least one of the following 'omics data types is strongly preferred: RNA-seq, bisulfite sequencing or methylation array, whole genome sequencing, or massively parallel reporter assays. Applicants should have excellent organizational skills, a positive attitude, and be comfortable working as part of a large, interdisciplinary, and international team.

The Lea lab strives to provide a supportive and inclusive research environment that fosters interdisciplinary training and collaborative exchange. The lab is based

in Vanderbilt's Department of Biological Sciences. We are also affiliated with the Vanderbilt Genetics Institute and the Vanderbilt Evolutionary Studies Initiative.

The anticipated start date is October 1, 2023, but this is flexible. Candidates must have obtained their PhD in a related field prior to the start date. The term of the position will initially be for one year, with extension contingent on performance and funding.

Please email a CV, names of 3 references, and a cover letter describing your interests and fit for the position to Dr. Amanda Lea: amanda.j.lea@vanderbilt.edu. Applications will be evaluated on Aug 18. Please reach out with any questions.

[Vanderbilt] Amanda Lea (she/her) Assistant Professor Department of Biological Sciences Vanderbilt University lea-lab.org < <https://lea-lab.org/index.html> >

"Lea, Amanda" <amanda.j.lea@Vanderbilt.Edu>

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Villeurbanne France Alpine Ibex Brucellosis

Dear all,

We are urgently looking for a post-doctoral researcher to continue an existing modelling project on the transmission and management of brucellosis (*B. melitensis*) in a population of Alpine ibex (*Capra ibex*). Since its discovery in 2012, this outbreak has been a major subject of debate, and an example of livestock-wildlife conflict in France. A fine understanding of disease transmission is required, within a one-health, multispecies approach.

The project will last 4 years and is expected to start in September 2023 or at the soonest possible date. It is conducted at the Laboratory of Biometrics and Evolutionary Biology (UMR 5558 LBBE), Villeurbanne, France) and more particularly in the Department of Evolutionary Ecology, with close partnership with Anses (Paris), the Office Français de la Biodiversité (Grenoble) and ENVT (Toulouse). The project is funded by the French ministries in charge of Agriculture and Environment.

The project aims to provide accurate modelling tools to inform policy on the management of brucellosis in the ibex population of the Bargy massif and at the interface with livestock. The main duties will be 1) to update

and complement the existing dynamic model (Lambert 2019, Lambert et al. 2020, 2021, Anses 2021) in order to produce real-time predictions on possible management scenarios ; 2) to assess of the impact of uncertainties on model predictions (in particular through sensitivity analyses) ; 3) to strengthen the link between modelling approach and outbreak surveillance scheme (through statistical analysis of surveillance data and creation of an online tool usable by stakeholders); 4) to build a multi-hosts model to identify the most probable routes of transmission among species.

The LBBE is a large laboratory gathering members of University Lyon 1, CNRS and VetAgro Sup. It stands at the interface between methodological developments regarding the analysis and modelling of biological data, ecology and evolution approached from molecular and genomic to population and community organization levels, and health (<https://lbbe.univ-lyon1.fr/en>).

A PhD concerning dynamics modelling in epidemiology is required. Successful applicants will have specific experience concerning compartmental epidemiological models (model building, parameter estimation methods, sensitivity analysis, simulation, programming). Thorough knowledge on the statistical analysis of epidemiological data and Vertebrates population dynamics would be appreciated. The position includes interactions with collaborating scientific groups and other local stakeholders. Excellent communication skills, as well as strong publication records, are required.

Conditions—: the position is located at the LBBE (campus de la Doua, Villeurbanne), with trips to Paris, Grenoble, Toulouse and in the field. The anticipated gross salary is 2550 euros.

To apply, please contact Emmanuelle Gilot-Fromont (emmanuelle.gilotfromont@vetagro-sup.fr) preferably by August 21. Applications will be considered on arrival until the position is filled. Send a CV, and a statement describing our accomplishments and motivation for applying, and contact information for 2 references.

Anses (2021) l'évaluation de l'efficacité de différents scénarios de lutte contre la brucellose dans les populations des bouquetins dans le massif du Bargy. <https://www.anses.fr/fr/system/files/SABA2021SA0200.pdf>

Lambert S. 2019. Thèse de doctorat. Université Claude Bernard Lyon 1. <http://www.theses.fr/2019LYSE1278> Lambert S. et al. 2020. Ecological Modelling 425: 109009. <https://doi.org/10.1016/j.ecolmodel.2020.109009>

Lambert S. et al. 2021. Veterinary Research 52: 116. <https://doi.org/10.1186/s13567-021-00984-0>

Emmanuelle GILOT <emmanuelle.gilotfromont@vetagro-sup.fr>

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VirginiaStateU
BioluminescentFungalOmics

Postdoctoral Position in Integrated and Comparative -Omic Study of Bioluminescent Fungi

The application is open until September 5, 2023.

We are seeking a creative and highly motivated post-doctoral candidate to join our team who is interested in applying cross-species multi-omics approaches, including the genomic, epigenomic, transcriptomic, and proteomic approaches, to study the evolution of bioluminescence in fungi. This is a part of the collaborative project (including multiple institutions in U.S.A. and Brazil) to study the biodiversity in the Dry Diagonal of Brazil in comparison to the Atlantic Forest and Amazon, and the group meets on a regular monthly basis.

The Xie Lab is in the Department of Biology at the Virginia State University but also a leading lab of the interdisciplinary Genomics and Bioinformatics Program and the Center for Biotechnology on the campus. The Lab is housed in a recently renovated building and well equipped with instruments for sequencing (including an Illumina MiSeq, a NextSeq 500, and Nanopore sequencers), other related molecular biology instruments, and a Linux server for bioinformatic analysis.

A strong background in evolutionary genomics and excellent communication, organizational, and leadership skills are required. The applicant should have a strong work ethic, and is expected to develop creative solutions and new ideas that promote current research and her/his own future independence. The postdoc will be expected to assist with training graduate and undergraduate students in the lab, develop synergistic projects, write grant proposals, produce first authored papers, and contribute to co-authored papers. The Xie Lab has a strong commitment to maintaining an inclusive space in the lab that is welcoming to anyone who wants to experience research, thus applicants should share this commitment to diversity and inclusion.

Ideal applicants will have:

* Experience with best practices for analyzing NGS data

* Strong skills to code in at least one programming language * Productivity in high quality research (as evidenced by first authored publications) * Strong written and oral communication skills

* Ability to work effectively and collegially with colleagues and be a productive member of a research team

Other traits not required, but preferred:

* Experience with best practices for analyzing the Nanopore/PacBio sequencing data * Molecular Skills (e.g. DNA/RNA preps, generating NGS libraries, and sequencing)

* Proficiency in oral communications in Portuguese

The position is available for a minimum of one year as a full-time 12-month appointment, with possible renewal based on satisfactory performance. The compensation includes competitive salary and full benefits. Selected applicants will also benefit from funds to travel to scientific meetings annually, opportunities for mentoring, teaching, and further career development. Additional lab funds for independent projects may also be available later. The position is available immediately.

Applicants must have a Ph.D. in an appropriate field. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin and continue working legally for the proposed term of employment. Women and minorities are strongly encouraged to apply.

The university is located in central Virginia, which is close to almost everything. It is about two hours away from the Appalachia mountains and the Shenandoah National Park, the ocean, Washington DC, and the Research Triangle in North Carolina. The "River City" Richmond is very close by and the annual Richmond Folk Festival has been attracting performers and audience from across the world. There are great opportunities for sightseeing (particularly historic sites), water activities, hiking, camping, outdoor activities, arts, and sports, etc. Plus, the living expenses in this area are much more affordable than many other places in the U.S. and the area is generally safe as well.

If interested, please send a cover letter/statement of interest with a list of relevant skills, a CV, including a list of peer-reviewed publications, and the contact information of two references by email to xxie -at- vsu -dot- edu with "Postdoc Position" in the subject line. Review of applications will be on a rolling basis and continue until a suitable applicant is found.

Xianfa Xie, Ph.D.

Associate Professor

Department of Biology
Virginia State University
xiexianfa@gmail.com

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ing@mcmaster.ca)

VirginiaTech ComputationalPhylogenetics

The Suvorov Lab in the Department of Biological Sciences at Virginia Tech is seeking a postdoctoral researcher interested in computational and evolutionary biology. The successful candidate will have the opportunity to work in several areas of ongoing research in the laboratory which may include but are not limited to the following:

- 1) Design and implementation of novel machine learning approaches for phylogenetic inference
- 2) Building phylogenomic resources for the Drosophilidae family in collaboration with Bernard Kim at Stanford University
- 3) Inference of evolutionary history of dragonflies and damselflies

Required qualifications: - PhD in relevant field (Evolution, Genetics, Bioinformatics, Computer Science etc.). This is an interdisciplinary position and candidates from a variety of backgrounds will be considered and receive training to address deficits as needed.

- Enthusiasm for phylogenetics/phylogenomics, bioinformatics and computational biology.

Desired qualifications: - Coding experience with Python and/or R programming languages - Experience with High Performance Computing - Familiarity with common phylogenetics pipelines and workflows

Those interested should email Anton Suvorov (asu@vt.edu) and include their CV as an attachment.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or military status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other

employees or applicants, or on any other basis protected by law.

Anton Suvorov <antons@vt.edu>

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ing@mcmaster.ca)

YorkU Toronto Genomics

Postdoctoral positions in Ecological Genomics at York University, Toronto, Canada

Our group (www.yorku.ca/zayedlab) at York University's Dept. of Biology (Toronto, Canada) has positions available for a postdoctoral fellow in Ecological Genomics with demonstrable expertise in genomics and bioinformatics for the following two projects:

1. BeeCSI: Our group is leading a national Genome Canada-funded initiative called BeeCSI (<https://-beecsi.ca/>) to develop stressor-specific biomarkers for honey bees. We are looking for a postdoctoral fellow with experience in transcriptomics and interest in honey bee biology to lead the analysis of a large RNAseq dataset consisting of 43 laboratory and 12 field experiments where honey bees were naturally and experientially exposed to a large number of relevant stressors, alone and in combination. The RNAseq datasets have been fully assembled and the successful candidate will be able to initiate the bioinformatics analyses immediately after starting the position. The goal of our research is to characterize the molecular machinery underlying the honey bee's response to multiple stressors, and to discover diagnostic transcriptional signatures that can be used to predict exposure to stressors in the field.
2. Genomics of Coral Resilience: A new research direction for the lab! The Postdoctoral fellow will use several Omic tools to study the genomic basis underlying symbiont shuffling and tolerance to thermal-stress in reef-building corals, in collaboration with the Coral Resilience Lab at the Hawaiian Institute of Marine Biology.

Qualified candidates are encouraged to submit a cover letter outlining their expertise, a CV, reprints of relevant papers, and contact information for 3 referees to honeybee@yorku.ca. We will evaluate the applications as they are received, with an application deadline of August 31st, 2023.

In addition to the honey bee lab, York University is home to the Center for Bee Ecology, Evolution and Conservation (BEEc, <https://bees.yorku.ca>). Successful

candidates will have a chance to interact with the diverse faculty, fellows and students at BEEc, and participate in BEEc activities and training initiatives.

Start Date: Fall 2023 Salary: Starting from \$50,000 and

Commensurate with experience.

Ida Conflitti <iconflitti@gmail.com>

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Online AdvancedPythonProgramming Nov20-24

Dear all,

Registrations are now open for our “Advanced Python Programming” course, taking place online from November 20th to 24th, 2023. This five-day immersive experience is designed to equip biologists and life scientists with the tools and techniques necessary for data science applications in biology and the life sciences.

****Course Overview:**** In this course, participants will delve into the intermediate and advanced aspects of Python programming with a specific focus on applications within biology. Through a series of interactive sessions and case studies, you will gain practical experience in preparing, processing, analyzing, and visualizing biological data. The course will cover essential topics such as data preprocessing, bioinformatics pipelines, machine learning, and data visualization.

****Target Audience and Assumed Background:**** This course is ideal for biologists and life scientists of all levels who possess some prior programming experience and a

basic understanding of Python fundamentals (syntax, variables, lists, conditionals, loops). The curriculum starts with a Python refresher and then progresses to more complex concepts, making it suitable for both intermediate and advanced learners.

****Learning Outcomes:**** By the end of the course, participants will have achieved the following goals: - Gain a comprehensive understanding of the data science workflow in biology - Develop Python coding skills for data preparation, analysis, and visualization - Create automated Python workflows for bioinformatics pipelines - Grasp the fundamentals of machine learning and its applications in Python - Learn the principles of effective data visualization using Python

For more information, please check it out: (<https://www.physalia-courses.org/courses-workshops/-advanced-python/>)

For the complete list of our courses and workshops, have a look at: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards, Carlo

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Online CRISPR Oct9-12

Dear all,

we have the last 4 seats available for the course “Introduction to CRISPR for ecology and evolution studies”: (<https://www.physalia-courses.org/courses-workshops/course53/>)

Dates: online, October 9th-13th

This course aims to equip participants with the knowledge and skills necessary to effectively utilize the CRISPR-Cas9 system for evolutionary studies. . This course will include both fundamental theoretical lessons and hands-on sessions with practical examples of genomic data analysis. All data used in this course has been chosen from up-to-date scientific literature. It will focus on experiment design, selection of methods and data analysis. General “starting-point” bench protocols will be shared, and each day will include a “Discussion and Q&A” session where participants can fine-tune their own projects with the instructors.

For the full list of our courses and workshops, please have a look at: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards, Carlo

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on “Developing R/Bioconductor Packages for Genomics,” which will take place from 13th to 17th November 2023. This course is designed to make Bioconductor package development accessible to biologists and newer bioinformaticians who wish to expand their programmatic toolkit.

The primary objective of this course is to provide attendees with accurate insights into the fundamental notions required for proper R/Bioconductor package development. Throughout the five-day workshop, participants will receive comprehensive training on package development principles and the Bioconductor ecosystem. The course will be a mix of formal lectures, demonstrations, and hands-on exercises, ensuring an immersive learning experience.

This course is suitable for both experimentalists seeking to learn more about the R/Bioconductor ecosystem and computational biologists aiming to enhance their coding skills. While the material is accessible to all, participants already familiar with the R environment will find the course most beneficial.

For more information about the course, please check it out: (<https://www.physalia-courses.org/courses-workshops/r-packages/>)

Our full list of courses and Workshops: (<https://www.physalia-courses.org/courses-workshops>)

Should you have any questions, please feel free to contact us: (<mailto:info@physalia-courses.org>)

Best regards, Carlo

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Online GAMSinR Nov20-24

Dear all,

We are thrilled to announce our 4th edition of the course “Generalized Additive Models in R: A Data-Driven Approach to Estimating Regression Models,” scheduled to take place from November 20th to 24th, 2023. With a commitment to fostering international participation,

Online DevelopingBioconductorPackages Nov13-17

Dear all,

we are excited to announce the upcoming online course

this course will be offered online, allowing you to join from anywhere in the world.

Course website: (<https://www.physalia-courses.org/courses-workshops/gams-in-r/>)

Course Overview:

Are you ready to delve into the world of statistical analysis with a fresh perspective? Generalized Additive Models (GAMs) offer a powerful alternative to traditional fixed functional forms, enabling you to learn relationships between covariates and responses directly from the data using splines. In this immersive five-day course, we will guide you through the practical application of GAMs using the `mgcv` and `brms` packages in R. By the end of the course, you will not only understand the inner workings of GAMs but also gain the skills to leverage them effectively in your analyses.

Target Audience and Assumed Background:

Designed for graduate students and researchers with a foundation in statistical knowledge, this course is ideal for those familiar with generalized linear models, likelihood, and AIC. Don't worry if your expertise in these areas is a bit rusty - we'll recap the essentials. While prior knowledge of mixed effects or hierarchical models is beneficial, it is not a prerequisite. Participants should be comfortable with RStudio and possess a degree of fluency in programming R code, including data importation, manipulation, and visualization.

Learning Outcomes:

By the end of the course, participants will be equipped with the following skills: Understand the practical implementation of GAMs to learn relationships from data Fit GAMs using R's `mgcv` and `brms` packages Differentiate between types of splines and select the appropriate ones for your models Visualize fitted GAMs and assess model assumptions For more information about our courses, please have a look at: (<https://www.physalia-courses.org/courses-workshops>)

Best regards, Carlo

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Online GWAS Nov27-Dec1

Dear all,

We are excited to announce our upcoming course on "Introduction to Genome-Wide Association Studies (GWAS)"! If you're looking to enhance your skills and knowledge in GWAS analysis, this course is tailored for you. Whether you are a student, researcher, or professional, this course will provide you with the essential tools to confidently navigate the world of GWAS.

****Course Dates:**** Online, 27 November - 1 December 2023

Course website: (<https://www.physalia-courses.org/courses-workshops/course49/>)

This comprehensive course will guide you through the entire process of GWAS data analysis, ensuring that you not only understand the individual steps but also learn how to create a reproducible and efficient bioinformatics workflow.

Over the span of five days, our course will cover a range of topics through a well-structured module-based approach. Each day will commence with informative lectures, followed by interactive class discussions to solidify key concepts. Subsequently, you will engage in hands-on practical sessions designed to foster your skills. These sessions will include both guided exercises with our experienced instructors and independent tasks to reinforce your learning. After each exercise, you will have the opportunity to interpret and discuss results within a group setting.

A background in biology, particularly genetics, is recommended. While a basic familiarity with R programming and Unix will be helpful, our course will provide ample support for learners at varying levels of experience.

For the full list of our our courses and workshops, please have a look at: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards, Carlo

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Online Inference Phylogenetic Comparative Methods

Nov9-17

Dear colleagues,

I am happy to announce a new Transmitting Science course taught by Ignacio Quintero: “Introduction to probabilistic inference of Phylogenetic Comparative Methods (PCM) using Julia”.

Format: Live online.

Schedule: Online live sessions on the 9th, 10th, 13th, 15th, and 17th of November; from 14:00 to 18:00 (Madrid time zone).

Course Overview This course offers an advanced understanding of probabilistic inference of Phylogenetic Comparative Methods (PCM), exploiting the capabilities of the Julia language. Participants will gain a deeper knowledge of stochastic processes, their inference, and computation behind PCMs as well as their biological interpretations. We will start with an introduction to Julia language, a powerful new language for numerical computing that combines high performance with high-level syntax, attaining comparable speeds as C, yet remaining accessible to programming initiates. We will then overview probabilistic inference within a Bayesian framework, reviewing basic probability concepts and posterior parameter estimation. Finally, most of the course will then delve into the main three PCM: trait and biogeographic evolution, and a deeper emphasis on diversification models. Topics covered include basic foundations (i.e., diffusion processes such as Brownian motion, time-continuous Discrete Markov models, and birth-death models) to then build-up to the more advanced models that allow for interdependence between processes (i.e., environmental and geographic diversification, inference of biotic interactions). The course will combine introductory lectures and hands-on exercises.

More information and registration: <https://www.transmittingscience.com/courses/evolution/-introduction-to-probabilistic-inference-of-phylogenetic-comparative-methods-pcm-using-julia/> Best wishes

Sole

Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter

@SoleDeEsteban Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU) 2016/679 of 27 April 2016 (GDPR), we inform you that personal data and email address, collected from the data subject will be used by TRANSMITTING SCIENCE SL to manage communications through email and properly manage the professional relationship with you. The data are obtained based on a contractual relationship or the legitimate interest of the Responsible, likewise the data will be kept as long as there is a mutual interest for it. The data will not be communicated to third parties, except for legal obligations. We inform you that you can request detailed information on the processing as well as exercise your rights of access, rectification, portability and deletion of your data and those of limitation and opposition to its treatment by contacting Calle Gardenia, 2 Urb. Can Claramunt de Piera CP: 08784 (Barcelona) or sending an email to info@transmittingscience.com or <http://transmittingscience.com/additional-terms>. If you consider that the processing does not comply with current legislation, you can complain with the supervisory authority at www.aepd.es. Confidentiality. - The content of this communication, as well as that of all the attached documentation, is confidential and is addressed to the addressee. If you are not the recipient, we request that you indicate this to us and do not communicate its contents to third parties, proceeding to its destruction. Disclaimer of liability. - The sending of this communication does not imply any obligation on the part of the sender to control the absence of viruses, worms, Trojan horses and/or any other harmful computer program, and it corresponds to the recipient to have the necessary hardware and software tools to guarantee both the security of its information system and the detection and elimination of harmful computer programs. TRANSMITTING SCIENCE SL shall not be liable.

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Online Metabolomics Oct23-26

Dear all, registrations are now open for the 4th edition of the course “Metabolomics in R/Bioconductor: From Study Design to Data Analysis,” taking place from 23rd to 26th October 2023.

Format: Online (to accommodate international participants) For more details and registration, visit: (<https://www.physalia-courses.org/courses-workshops/-course55/>)

This course covers fundamental aspects of metabolomics, guiding you through the entire process of setting up a successful investigation. From study and analytical design considerations to data pre-processing and statistical analysis, we've got you covered. The course will be delivered through engaging lectures, hands-on computer-based practical sessions, and stimulating group discussions.

We'll dedicate a full day to a swift introduction to data carpentry and visualization in R, ensuring you're well-prepared. If you have basic experience in metabolomics, that's a bonus, but it's not mandatory everyone is welcome!

By the end of the course, you'll be well-versed in the analysis of metabolomic data, both targeted and untargeted, using R. Moreover, you'll gain valuable insights into applying univariate and multivariate statistics to complex datasets.

If you want to learn R in Spanish, have a look at our course "INTRODUCCIÓN PRÁCTICA A LA PROGRAMACIÓN EN R" at the end of August: (<https://www.physalia-courses.org/courses-workshops/-r-spanish/>)

Best regards, Carlo

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Online MultivariateAnalysis Sep18

ONLINE COURSE - Multivariate Analysis Of Ecological Communities Using R With The VEGAN package (VGNR05) This course will be delivered live

<https://www.prstatistics.com/course/multivariate-analysis-of-ecological-communities-using-r-with-the-vegan-package-vgnr05/> Monday 18th September 2023

Please feel free to share!

ABOUT THIS COURSE...

This 5-day course will cover R concepts, methods, and tools that can be used to analyze community ecology data. The course will review data processing techniques relevant to multivariate data sets. We will cover diversity indices, distance measures and distance-based multivariate methods, clustering, classification and ordination techniques using the R package VEGAN. We will use real-world empirical data sets to motivate analyses, such as describing patterns along gradients of environmental or anthropogenic disturbances, quantifying the effects of continuous and discrete predictors. We will emphasise visualisation and reproducible workflows as well as good programming practices. The modules will consist of introductory lectures, guided computer coding, and participant exercises. The course is intended for intermediate users of R who are interested in community ecology, particularly in the areas of terrestrial and wetland ecology, microbial ecology, and natural resource management. You are strongly encouraged to use your own data sets (they should be clean and already structured, see the document: "recommendation if you participate with your data").

Please email oliverhooker@prstatistics.com with any questions.

Oliver Hooker PhD. PR statistics

Oliver Hooker <oliverhooker@prstatistics.com>

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Online MultivariateDataAnalysis Nov27-Dec1

Dear all,

We're excited to announce that registrations are now open for the next edition of course on **Multivariate Data Analysis with R and Vegan** taking place online from **November 27th to December 1st, 2023**. This course will equip you with practical skills and insights to effectively analyse and interpret multivariate data.

The course focuses on utilising the power of R and the vegan package for community ecologists to conduct advanced statistical analyses, generate publication-quality

figures, and perform ecological simulations. Over five days, you'll dive into various aspects of multivariate data analysis, including ordination methods, diversity analysis, and ecological simulation. The course will guide you through concepts like unconstrained and constrained ordination, PERMANOVA, and restricted permutation tests.

Don't miss this opportunity to enhance your data analysis skills and elevate your research capabilities. Enroll now and secure your spot in the **Multivariate Data Analysis with R and Vegan** course. For more details and registration, please visit (<https://www.physalia-courses.org/courses-workshops/vegan/>)

For the full list of our courses and workshops, please visit: (<https://www.physalia-courses.org/courses-workshops>)

Best regards, Carlo

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Online Phylogenomics Dec4-8

Dear all,

We are excited to announce our upcoming online course on Phylogenomics, focused on Phylogenetic Inference and Divergence-Time Estimation with Genomic Data Sets. This course aims to provide researchers with the necessary tools and techniques to harness the power of genomic data for understanding evolutionary relationships and divergence times.

- **Dates:** 4-8 December 2023

- **Format:** Online to facilitate international participation

- **Course website:** : (<https://www.physalia-courses.org/courses-workshops/phylogenomics/>)

This course will equip participants with the theoretical knowledge and practical skills needed to confidently infer time-calibrated phylogenies from multi-locus genome data sets, while accounting for these challenges.

This course is tailored for researchers, PhD candidates, and postdocs aiming to infer phylogenetic relationships and divergence times from multilocus data, regardless of prior experience. Whether you're new to the field or seeking to enhance your skills, this course is designed to cater to a diverse range of learners.

For the full list of our courses and Workshops, please have a look at: (<https://www.physalia-courses.org/courses-workshops>)

Best regards, Carlo

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Online RNAseqPipelines 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 24th, 26th, 27th, 30th, and 31st of October; from 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 Fisiología y 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 to 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 pre-processing of fastq files * SAM format and samtools * RNA-seq * Small RNA sequencing * LncRNA discovery

Best regards,

Sole

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Online SpatialOmics Nov6-9

Dear all, registration is now open for the Physalia course on Spatial Omics! Dates: online 6-9 November 2023

Course website: (<https://www.physalia-courses.org/-courses-workshops/multiplexed-image-analysis/>)

During this course we will discuss basics and introduce state-of-the-art software-tools tailored for spatial omics and multiplexed image analysis. The most common workflows can be divided in three steps: (i) processing/preparing the images for cellular segmentation, (ii) extraction of the individual marker intensities for each cell which are subsequently used for cell phenotyping and (iii) neighborhood analysis to quantify interactions between the different cell types in the tissue. In this course we will visit each of these steps and present algorithms and software-tools used for processing, analysis and visualization of images and data. These tools include among others MCMICRO, SCIMAP, QuPath, Fiji and napari. The course will be delivered in 4 days (see program below). Each day we will have a presentations as well as hands-on sessions. The course is intended for biologists and computational biologists who work with multiplexed images at a protein level (antibodies/immunofluorescence). Basic experience in programming with python, running programs through command line and fluorescence microscopy come in handy for this course but they are not necessary.

By the end of the course, participants will be able to:

- Use the MCMICRO pipeline to perform image processing on multiplexed images.
- Use QuPath, napari and Fiji to carry out annotations and visual quality control on images.
- Do cell phenotyping and basic spatial analysis with SCIMAP.
- Perform neighborhood analysis with e.g., MISTY and SpatialLDA.
- Carry out a complete spatial analysis pipeline for multiplexed data, i.e., from image processing to cell segmentation, cell phenotyping and neighborhood analysis.

For more information about our course, please have a look at: (<https://www.physalia-courses.org/courses-workshops/multiplexed-image-analysis/>)

Best regards, Carlo

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Online ZooarchaeologyByMassSpec Nov2-9

Dear colleagues,

We are happy to announce the new Transmitting Science course: Palaeoproteomics and Zooarchaeology by Mass Spectrometry (ZooMS).

Instructor: Dr. Michael Buckley [1] (University of Manchester, UK).

Schedule: Online live sessions on the 2nd, 3rd, 6th, 8th, and 9th of November; from 13:00 to 17:00 (Madrid time zone), plus 4 hours of participants working on their own.

Places are limited to 12 participants and will be occupied by strict registration order.

Course overview

In this course, participants will be introduced to paleo-proteomic methods that will include various R packages including MALDIquant, for ZooMS MALDI peptide mass fingerprint-based species identification, MSFragger for sequencing and an introduction to incorporating proteomic sequence data into molecular phylogeny reconstruction using MEGA.

During the course, participants will first be introduced to some theory with illustrative examples (both from simulated data as well as my groups own datasets) and will then learn how to interpret the data as well as how to assess their reliability.

More information and registration: <https://www.transmittingscience.com/courses/genetics-and-genomics/palaeoproteomics-and-zooarchaeology-by-mass-spectrometry-zooms/> or writing to courses@transmittingscience.com

Best regards

Sole

– Soledad De Esteban-Trivigno, PhD Director Transmitting Science www.transmittingscience.com Twitter @SoleDeEsteban Orcid: <https://orcid.org/0000-0002-2049-0890> Under the provisions of current regulations on the protection of personal data, Regulation (EU)

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Links:

[1] <https://www.transmittingscience.com/instructors/-michael-buckley/> Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.com>

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Vienna ExperimentalEvolution Nov27-Dec1

The Vienna Graduate School of Population Genetics is accepting applications for the course “Experimental Evolution: Exploring Evolutionary Forces in Controlled

Environments” at the University of Veterinary Medicine in Vienna, November 27 - December 1. The call for applications are open until September 1st.

Application form: <https://forms.gle/-8bKMtTXF4uGxyBtGA> Participants are expected to arrange their own accommodation. Further information and updates available at: <https://www.popgen-vienna.at/training/experimental-evolution-course/>
Key-note speakers:

Adam Chippindale (Queens University, CA)

Michael Desai (Harvard University, US)

Elina Immonen (Uppsala University, SE)

Christian Schli $\frac{1}{2}$ ttterer (Vetmeduni Vienna, AT)

Henrique Teot $\frac{1}{2}$ nio (IBENS, FR)

If you wish to only attend the lectures, you can do by registering here: <https://forms.gle/zTywLf6tExyamE1s7>
LinkedIn event: <https://www.linkedin.com/events/-experimentalevolutioncourse20237074024281642274816/>
Feel free to email experimentalevolution-course@gmail.com for further inquiries.

Duarri Redondo Sara <Sara.Duarri@vetmeduni.ac.at>

(to subscribe/unsubscribe the EvolDir send mail to golding@mcmaster.ca<<mailto: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 notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although

this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.